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Hanford Federal Facility Agreement and Consent Order

Volume 2 of 2

Calendar Year 1992 Annual Update

by

Washington State
Department of Ecology

United States
Environmental Protection Agency

United States
Department of Energy

SEPTEMBER 1992

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HANFORD FEDERAL FACILITY AGREEMENT

AND

CONSENT ORDER

VOLUME 2 OF 2

CALENDAR YEAR 1992 ANNUAL UPDATE

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September 1992

CALENDAR YEAR 1992 ANNUAL UPDATE

TO THE

HANFORD FEDERAL FACILITY AGREEMENT

AND CONSENT ORDER

Approved for Implementation:

Paul T. Day, Project Manager
US Environmental Protection Agency — Date

David B. Jansen, Project Manager
State of Washington
Department of Ecology — Date

Steve H. Wisness, Project Manager
US Department of Energy — Date 9/1/92

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INTRODUCTION

This document constitutes a revision of the Hanford Federal Facility Agreement and Consent Order (hereafter referred to as "the Agreement") Action Plan. Section 11.3 of the Agreement Action Plan establishes the requirement for an annual update to the Work Schedule which is contained as Appendix D to the Action Plan. In addition, it is the intent of the parties to maintain Appendices B (Listing of Treatment, Storage, and Disposal Groups/Units), C (Prioritized Listing of Operable Units), E (Key individuals) and F (Supporting Technical Plans and Procedures) up-to-date through the annual update process. Therefore, Appendices B, C, D, E, and F of the Agreement Action Plan are being issued as a separate volume from the rest of the Agreement. This revision supersedes Appendices B, C, D, E, and F currently contained in the March 1990 version of Volume 2 of the Agreement. This revision is part of the Agreement Action Plan, and therefore the Agreement.

The DOE certifies as part of this annual update of the Work Schedule that the milestones as previously negotiated have not changed, and that actions being incorporated are consistent with meeting such milestones. If a milestone has to be changed, the change process described in Section 12.0 (of the Agreement Action Plan) will be used.

SUMMARY OF CHANGES

The following summarizes the changes made to Appendices B, C, D, E, and F as part of the Calendar Year 1992 annual update:

Appendix B- Listing of Treatment, Storage, and Disposal Groups/Units

All additions and changes to Appendix B have been listed below:

Additions:

Group Number	Group/Units	Operable Unit	Planned Action
S-2-8	200 East Area Liquid Effluent Retention Facility		Operating Permit (Storage)
S-2-7	207-A South Retention Basin	200-PO-5	Closure
D-2-10	216-A-37-1	200-PO-4	Closure
S-2-9	241-CX-70 Tank	200-SO-1	Closure

Changes:

Group Number	Group/Units	Change
T-1-2	1324-N/1324-NA Liquid Waste Facilities	Operable Unit changed from 100-NR-3 to 100-NR-1
S-2-3	241-AY Farm (2 tanks/2 diversion boxes)	Added 2 diversion boxes
S-2-4	241-A Farm (6 tanks/2 diversion boxes)	Added 2 diversion boxes
	241-AX Farm (4 tanks/1 diversion box)	Added 1 diversion box
	241-B Farm (16 tanks/5 diversion boxes)	Added 5 diversion boxes
	241-BX Farm (12 tanks/6 diversion boxes)	Added 6 diversion boxes
	241-BY Farm (12 tanks/3 diversion boxes)	Added 3 diversion boxes
	241-C Farm (16 tanks/6 diversion boxes)	Added 6 diversion boxes
	241-S Farm (12 tanks/2 diversion boxes)	Added 2 diversion boxes
	241-SX Farm (15 tanks/2 diversion boxes)	Added 2 diversion boxes
	241-T Farm (16 tanks/6 diversion boxes)	Added 6 diversion boxes
	241-TX Farm (18 tanks/4 diversion boxes)	Added 4 diversion boxes
	241-TY Farm (6 tanks/1 diversion boxes)	Added 1 diversion box
	241-U Farm (16 tanks/8 diversion boxes)	Added 8 diversion boxes

Changes (continued):

Group Number	Group/Units	Change:
TS-3-3	3718-F Alkali Metal Treatment and Storage Facility	"Planned Action" designated as Closure
S-4-1	4843 FFTF Sodium Storage Facility	"Planned Action" designated as Closure

Appendix C- Prioritized Listing of Operable Units

All additions and changes to Appendix B have been listed below:

Additions:

The following operable units were added to Appendix C:

100-FR-3 (GW O.U.): 100-FR-1 and 100-FR-2

The following units were added to Appendix C:

300-FF-1
628-4
UN-300-31
UN-300-FF-1
100-HR-1 O.U.:
126-H-2
132-H-1
132-H-3
100-DR-1 O.U.:
116-D-10
120-D-2
126-D-2
126-D-3
128-D-2
132-D-1
132-D-2
132-D-3
628-3
100-BC-1 O.U.:
116-B-13
116-B-14
116-B-15
116-B-16
118-B-10
100-BC-1 (cont.)
126-B-2
126-B-3
126-B-4
128-B-2
128-B-3
128-C-1
132-B-1
132-B-3
132-B-4
132-B-5
132-B-6
132-C-2
100-FR-1 O.U.:
116-F-15
116-F-16
126-F-2
128-F-2
132-F-3
132-F-4
132-F-5
132-F-6
200-UP-2 O.U.:
UN-200-W-161
100-BC-2 O.U.:
116-C-6
132-C-1
132-C-3
1607-B10
1607-B11
100-DR-2 O.U.:
126-DR-1
132-DR-1
100-KR-2 O.U.:
120-KE-8
120-KW-6
126-K-1
200-PO-2 O.U.:
299-E24-111
100-DR-3 O.U.:
116-DR-10
100-FR-2 O.U.:
118-F-9
120-F-1
128-F-3
100-HR-2 O.U.:
118-H-5
126-H-1
100-HR-2 (cont.)
128-H-1
128-H-2
128-H-3
132-H-2
100-KR-3 O.U.:
120-KE-9
120-KW-7
128-K-2
100-IU-2 O.U.:
628-1
200-BP-6 O.U.:
270-E Condensate Neutralization Tank
200-PO-6 O.U.:
UN-200-E-62
200-IU-4 O.U.:
UN-600-19
200-IU-2 O.U.:
628-2
200-IU-5 O.U.:
622-1
200-TP-5 O.U.:
2607-WT

Transfers:

The following transfers were made in Appendix C:

Title of Units:	Original Operable Unit:	Moved To:
UN-200-W-69	200-UP-2	200-RO-2
218-W-7	200-TP-4	200-RO-3
UN-200-W-85	200-RO-2	200-TP-4
UN-200-E-89	200-BP-7	200-BP-1
241-S-151	200-RO-4	200-RO-2
UN-200-W-29	200-TP-5	200-TP-2

Other Changes:

In accordance with approved change form M-12-91-2 operable units 100-NR-1, 100-NR-2 and 100-NR-3 have been combined into two operable units. One operable unit, 100-NR-1, is now a source operable unit containing all waste units within the 100-N Area. The other operable unit, 100-NR-2, is now a ground water operable unit dealing with the ground water beneath the 100-N Area.

In accordance with approved change form M-12-91-3 the 100-FR-1 (source and groundwater) and 100-FR-2 (source only) operable units have been reorganized into three operable units. Two of the new operable units are source operable units, 100-FR-1 and 100-FR-2, dealing with waste units. The third is a groundwater operable unit, 100-FR-3, which will deal with ground water beneath the 100-FR-1 and 100-FR-2 source operable units.

It was determined that since Units 323 Tank 1, 323 Tank 2, 323 Tank 3, and 323 Tank 4 are in a concrete vault, they would not be assigned to an operable unit (previously assigned to Operable Unit 300-FF-3) however, they are still classified as Solid Waste Management Units in WIDS.

Unit UN-200-W-22 (Operable Unit 200-UP-2) was deleted since it was duplicated in UPR-200-W-138.

Unit 116-B-8, Outfall Structure, was retitled to Unit 132-B-6 and remains in Operable Unit 100-BC-1.

The following waste units have been reclassified as an UPR (Unplanned release that is not considered to be a separate waste unit) and are part of another waste site.

Operable Unit	Title of Units	Unit Type	Reassigned to Waste Unit
200-UP-2	UN-200-W-138	Unplanned Release	216-U-7
200-PO-4	UN-200-E-66	Unplanned Release	216-A-42
200-TP-2	UN-200-W-131	Unplanned Release	241-TX-302B
200-TP-2	UN-200-W-28	Unplanned Release	241-TX-155
200-TP-2	UN-200-W-5	Unplanned Release	241-TX-155
200-TP-4	UN-200-W-21	Unplanned Release	241-TX-302C
200-RO-1	UN-200-W-139	Unplanned Release	216-U-9
200-RO-2	UN-200-W-20	Unplanned Release	241-S-151
200-RO-3	UN-200-W-57	Unplanned Release	233-S PU CONCRETION FACILITY
200-RO-3	UN-200-W-87	Unplanned Release	291-S FAN & FILTER BUILDING
300-IU-1	UN-600-11	Unplanned Release	J. A. JONES CONSTRUCTION PIT #1
200-BP-7	UN-200-E-38	Unplanned Release	241-B-152
200-BP-7	UN-200-E-5	Unplanned Release	241-BX-102
200-BP-7	UN-200-E-75	Unplanned Release	241-B-153
200-PO-3	UN-200-E-70	Unplanned Release	244-AR LIFT STATION

Appendix D- Tables D-1, D-2, and D-3 Listing of Major and Interim Milestones and Figure D-1 Work Schedule

The following are summarized changes which have been incorporated into Appendix D Tables D-1, D-2, and D-3 Listing of Major and Interim Milestones and Figure D-1 Work Schedule:

General Changes and Updates

This annual update has revised the previous work schedule by deleting the previous two years (1990 and 1991), providing monthly activity detail for the current year (1992) and providing quarterly detail for the next year (1993). Two new calendar years (1997 and 1998) have been added to the end of the work schedule. The annual update has retained the same format as the original work schedule, with the incorporation of approved milestone changes in accordance with Section 12 of the Agreement Action Plan.

Changes By Major Milestone (major milestones not listed were not changed and have only been graphically modified on the Work Schedule according to the general discussion above)

Milestone M-01-00

Approved change form M-01-90-3 has extended major milestone M-01-00 from September 1994 to December 1996 for the completion of 14 Grout Campaigns. The change also established or revised 10 interim milestones (M-01-01 through M-01-05) supporting grout vault construction and filling.

Milestone M-02-00

Approved change form M-02-91-1 has assigned major milestone M-02-00 a due date of "to be determined" along with the reestablishment of two interim milestones (M-02-01 and M-02-02). These two milestones require the submittal of a redefinition study for tank disposal activities and the establishment of new milestones supporting pretreatment activities.

Milestone M-03-00

Approved change form M-03-90-2 has extended the due date for milestone M-03-01 from July 1991 to April 1992 for the start of construction of the HWVP.

Milestone M-05-00

Approved change form M-05-90-2 revised the number of tanks to be stabilized under milestone M-05-02 from 5 to 4.

Approved change form M-05-90-03 adjusted the number of tanks to be stabilized under the interim milestones supporting major milestone M-05-00 (from 9 in 1991 to 4, from 9 in 1993 to 11, from 9 in 1994 to 8, and from 5 in 1995 to 10). The major milestone date of September 1995 to complete the interim stabilization of all but the two high-heat tanks was not changed.

Milestone M-10-00

Approved change form M-10-90-1 reduced the number of core samples to be obtained for interim milestones M-10-04 and M-10-05 and redistributed these delayed core samples to interim milestones in subsequent years. The major milestone M-10-00 remained unchanged.

Approved change form M-10-90-2 extended the due date for interim milestone M-10-04 from December 1990 to September 1991 and reduced M-10-06 from 24 samples to 20 samples. Interim milestone M-10-05 was redefined to cover the preparation of an integrated waste sampling plan and M-10-13 was added requiring the restoration of rotary mode sampling capability. No changes were made to the September 1998 Major Milestone M-10-00.

Approved change form M-10-91-1 has corrected an inconsistancy which existed in change form M-10-90-2. Change form M-10-90-2 contained two different due dates for newly negotiated milestone M-10-13 "Restore rotary mode sampling capability at the Hanford Site". Change form M-10-91-1 has established the correct date as September 1992, which is reflected in this annual update.

Milestone M-12-00

Approved change form M-12-90-4 has changed major milestone M-12-00 scope to 15 interim milestones requiring submittal of work plans (the 5 interim milestones deleted will be included in major milestone M-13-00). Additionally the interim milestones under M-12-00 have been revised to require rescoped work plans reflecting revised past practice strategy.

Approved change form M-12-91-2 has reorganized the 100-NR-1, 100-NR-2 and 100-NR-3 operable units into two operable units: 100-NR-1 addressing all sources in the 100-N Area and 100-NR-2 addressing the 100-N Area groundwater.

Approved change form M-12-91-3 has reorganized the 100-FR-1 (source and groundwater) and 100-FR-2 (source only) operable units into three operable units. Two of the new operable units are source operable units, 100-FR-1 and 100-FR-2, dealing with waste units. The third is a groundwater operable unit, 100-FR-3, which will deal with ground water beneath the 100-FR-1 and 100-FR-2 source operable units. This change request has reworded milestone M-12-13A to include the newly created operable unit 100-FR-3 within it's scope.

Milestone M-13-00

Approved change form M-12-90-4 has extended the due date for M-13-00 from beginning in calendar year 1992 to beginning in calendar year 1993.

Milestone M-14-00

Approved change form M-14-90-2 extended the due date for interim milestone M-14-01 from September 1990 to November 1990.

Milestone M-15-00

Approved change form M-15-90-1 established interim milestones M-15-02A, M-15-02B and M-15-02C requiring the submittal of Feasibility Studies and Remedial Investigation reports for the 200-BP-1 operable unit per the approved work plan.

Approved change form M-15-90-2 established interim milestones M-15-03A, M-15-03B and M-15-03C requiring the submittal of Feasibility Studies and Remedial Investigation reports for the 300-FF-1 operable unit per the approved work plan.

Approved change form M-15-90-4 established interim milestones M-15-04A, M-15-04B and M-15-04C requiring the submittal of Feasibility Studies and Remedial Investigation reports for the 300-FF-5 operable unit per the approved work plan.

Approved change form M-15-90-6 established a target date of February 1993 for submittal of a Remedial Investigation Phase I report for the 200-BP-1 operable unit per the approved work plan.

Approved change form M-15-91-2 consolidated milestones M-15-01B and M-15-01C into a single milestone M-15-01B/C requiring the submittal of a final Remedial Investigation/Feasibility Study report with a submittal date of December 1992.

Milestone M-17-00

Approved change form M-17-89-1 has deleted interim milestone M-17-07.

Approved Amendment 2 to the Agreement has established 3 new liquid effluent interim milestones;

- M-17-11 requiring the completion of numerous interim operating restrictions on liquid effluent streams at the Hanford Site (this interim milestone and its associated Table D-5 are deleted and replaced with stream specific milestones by change form M-17-91-05A)

- M-17-12 requiring the submittal of sampling and analysis plans for liquid effluent streams at the Hanford Site (this interim milestone and its associated Table D-4 are deleted and replaced with stream specific milestones by change form M-17-91-05A)

- M-17-13 requiring the submittal of a methodology for assessing impact of liquid discharge on groundwater at disposal sites.

Approved change form M-17-91-05A documents the changes resulting from the renegotiation of all the previous liquid effluent milestones. These changes have been incorporated into this annual update.

Approved change form M-17-91-05A has deleted liquid effluent interim milestone M-17-02 and revised interim milestones M-17-04, M-17-08, and M-17-09. Change form M-17-91-05A has also established 86 new interim milestones (M-17-14 through M-17-44), 1 new major milestone (M-17-00B) and revised the current major milestone M-17-00 (now M-17-00A) dealing with the disposition of liquid effluent streams at the Hanford Site.

Approved change form M-17-91-6 has deleted milestone M-17-06 and replaced it with a series of milestones (M-17-06A through M-17-06E) requiring numerous actions dealing with cessation of discharges to the 300 Area process trenches.

Milestone M-20-00

Approved Amendment 1 to the Agreement added interim milestone M-20-47 requiring the submittal of a RCRA Part B permit application for the 200 Area LERF by June 1991.

Approved change form M-20-90-1 has changed the due date for interim milestone M-20-32 from September 1992 to August 15, 1994.

Approved change form M-20-90-2 has changed the due date for interim milestone M-20-18 from June 1991 to December 1991 and changed the milestone requirement from the submittal of a RCRA Part B permit application to the submittal of a closure plan. This change form also deleted interim milestone M-23-10.

Approved change form M-20-90-3 has changed the due date for interim milestone M-20-14 from March 1991 to June 1991 and changed the milestone requirement from the submittal of a RCRA Part B permit application to the submittal of a closure plan.

Approved change form M-20-90-4 has changed the definition of Milestone M-20-21 from requiring the submittal of a RCRA Part B Permit application for the B Plant to requiring the establishment of a new interim milestone for the submittal of a RCRA Part B permit application or a closure plan. The due date for completion of M-20-21 is now January 1992.

Approved change form M-20-91-3 has changed the due date for interim milestone M-20-20 from August 1991 to April 1992 and has added the 3100 Hazardous Waste Treatment Unit to the scope of the RCRA Part B permit application required by the milestone.

Approved change form M-17-91-05A documents the changes resulting from the renegotiation of all the previous liquid effluent milestones. As part of the change form two new M-20-00 interim milestones have been added. The new milestones are M-20-49 and M-20-50.

Amendment 3 to the Tri-Party Agreement adjusted the time periods for the review and revision cycles of RCRA Part B permit applications and closure plans. Amendment 3 has been incorporated into this annual update. The target dates appearing in the Work Schedule after submittal of a RCRA Part B permit application or closure plan are based upon the following time periods:

	Action	Part B Applications	Closure Plans
1.	Ecology Review (Rev. 0)	120 days	90 days
2.	DOE Response (NOD Response Table)	120 days	90 days
3.	Ecology Review Response Table	120 days	90 days
4.	Unit Managers Issue Resolution	90 days	60 days
5.	DOE Issue Revision 1	120 days	90 days
6.	Ecology Review Revision 1	120 days	90 days
7.	DOE Response (NOD Response Table)	120 days	90 days
8.	Ecology Review	90 days	60 days
9.	Unit Managers Issue Resolution	90 days	60 days
10.	DOE Issue Revision 2	90 days	60 days
11.	Ecology Review	90 days	60 days
12.	DOE Response (NOD Response Table)	90 days	60 days
13.	Ecology Review	90 days	60 days
14.	Unit Managers Issue Resolution	90 days	60 days
15.	DOE Page Change Revisions	90 days	60 days
16.	Public Review/Draft Permit	90 days	60 days

Milestone M-23-00

Approved change form M-23-90-4 changed the due date for the T-Plant treatment by generator request portion of interim milestone M-23-01 from June 1990 to September 1990.

Approved change form M-20-90-2 deleted interim milestone M-23-10.

Milestone M-24-00

Approved change form M-24-91-2 has changed the requirement for interim milestone M-24-17 from 4 RCRA wells at the 1324-N/NA ponds to 3 and added 1 RCRA well to the 1325-N site resulting in no changes to the total number of monitoring wells in calendar year 1991.

Approved change form M-24-91-3 changed the due date for Major Milestone M-24-00 (for 1990) and interim milestone M-24-07 from December 1990 to October 7, 1991.

Approved change form M-24-91-4 has been incorporated into this annual update. This change request establishes interim milestones for the installation of 21 calendar year 1992 RCRA wells (interim milestones M-24-19 through M-24-26).

Approved change form M-24-91-5 has been incorporated into this annual update. This change request further establishes additional interim milestones for the installation of additional calendar year 1992 RCRA wells (interim milestones M-24-27 through M-24-28).

Milestone M-26-00

Approved Amendment 1 to the Agreement added major milestone M-26-00 requiring the submittal of a Hanford Land Disposal Restrictions Plan for Mixed Wastes by October 1990. Amendment 1 also established 4 interim milestones (M-26-01 through M-26-04) requiring the completion of Land Disposal Restrictions activities related to major milestone M-26-00.

Milestone M-27-00

Approved change form M-12-90-4 has added major milestone M-27-00 requiring the submittal of Aggregate Area Management Study Reports for the 200 Area by September 1992. The change form also established 11 interim milestones requiring the submittal of individual reports (M-27-01 through M-27-11).

Milestone M-28-00

Approved change form M-12-90-4 has added major milestone M-28-00 requiring the submittal of soils and groundwater background determination documents by April 1992. The change form also established 4 interim milestones requiring the submittal of individual documents supporting major milestone M-28-00 (M-28-01 through M-28-04).

Milestone M-29-00

Approved change form M-12-90-4 has added major milestone M-29-00 requiring the submittal of documentation describing Hanford risk assessment methodology by March 1992. The change form also established 3 interim milestones requiring the submittal of individual documents supporting major milestone M-29-00 (M-29-01 through M-29-03).

Milestone M-30-00

Approved change form M-12-90-4 has added major milestone M-30-00 requiring the completion of integrated general investigations and studies for the 100-Area by September 1993. The change form also established 5 interim milestones requiring the completion of several related activities supporting major milestone M-29-00 (M-29-01 through M-29-03).

Milestone M-31-00

Approved change form M-31-91-1 has added major milestone M-31-00 requiring the construction of additional double-shell tank capacity by a date which has yet to be determined. The change form also established 2 interim milestones (M-31-01 and M-31-02) and 4 target dates (M-31-01T1 and M-31-02T1 through M-31-02T3) requiring the completion of several related activities supporting major milestone M-31-00.

Appendix E- Key Individuals

David Jansen has replaced Tim Nord as the Project Manager for Ecology.

Bub Loiselle has replaced Grechen Schmidt as the Community Relations Contact for the EPA.

Mary Getchell has replaced Mary Kelly as the Community Relations Contact for Ecology.

Addresses and telephone numbers have been updated for the key individuals.

Appendix F- Supporting Technical Plans and Procedures

Approved Amendment 1 to the Agreement added Appendix F to the Agreement and specifically placed it in Volume 2. The listed status for the documents contained within Appendix F has also been updated.

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 1 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
D-1-1	100-D Ponds (120-D-1)	100-DR-1	X	
T-1-1	105-DR (122-DR-1) Sodium Fire Facility		X	
D-1-2	1301-N/1325-N Liquid Waste Disposal Facilities	100-NR-1	X	
	116-N-1 Crib 116-N-3 Crib			
T-1-2	1324-N/1324-NA Liquid Waste Facilities	100-NR-1	X	
	120-N-1 Pond 120-N-2 Neutralization Unit			
T-1-3**	1706-KE Treatment Facility (116-KE6 A-D):		X	
	1706-KE Waste Accumulation Tank 1706-KE Ion Exchange Column 1706-KE Solidification Unit (Evaporator) 1706-KE Condensate Tank			

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 2 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
T-1-4	183-H Solar Evaporation Basins (116-H-6)	100-HR-1	X	
S-2-8	200 East Area Liquid Effluent Retention Facility (LERF)			Storage
T-2-1	200-E8 Borrow Pit Demolition Site		X	
T-2-2	200-W Ashpit Demolition Site		X	
T-2-3***	204-AR Waste Unloading Station			Treatment
S-2-7	207-A South Retention Basin	200-PO-5	X	
D-2-1	2101-M Pond		X	
D-2-2	216-A-10 Crib	200-PO-2	X	
D-2-3	216-A-29 Ditch	200-PO-5	X	
D-2-4	216-A-36B Crib	200-PO-2	X	
D-2-10	216-A-37-1 Crib	200-PO-4	X	
D-2-5	216-B-3 Pond System: 216-B-3 Pond 216-B-3A Pond 216-B-3B Pond 216-B-3C Pond 216-B-3-3 Ditch	200-BP-11	X	

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 3 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
S-2-3	Double-Shell Tanks			Storage
	241-AN Farm (7 tanks) 241-AP Farm (8 tanks) 241-AW Farm (6 tanks) 241-AY Farm (2 tanks/2 diversion boxes) 241-AZ Farm (2 tanks) 241-SY Farm (3 tanks) 241-EW-151 Vent Station Catch Tank 244-AR Vault 244-CR Vault 244-TX Receiver Tank 244-BX Receiver Tank 244-U Receiver Tank 244-S Receiver Tank 244-A Receiver Tank			
S-2-9	241-CX-70 Tank	200-SO-1	X	
D-2-6	216-B-63 Trench	200-BP-8	X	
D-2-7	216-S-10 Pond and Ditch	200-RO-1	X	
	216-S-10D Ditch 216-S-10P Pond			

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 4 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
D-2-8	216-U-12 Crib	200-UP-2	X	
D-2-9	Low-Level Burial Grounds			
	218-E-10			Landfill
	218-E-12B			Landfill
	218-W-3A			Landfill
	218-W-3AE			Landfill
	218-W-4B			Landfill
	218-W-4C			Landfill
	218-W-5			Landfill
	218-W-6			Landfill
S-2-1	Purex Tunnels 1 and 2			Storage
	218-E-14			
	218-E-15			
T-2-4**	221-T Containment System Test Facility		X	
TS-2-1	222-S Laboratories Treatment Tanks and Storage Building			
	222-S Storage Pad			Storage
	*** 219-S Hot Waste Facility Tank 102			Treatment
	*** 219-S Hot Waste Facility Tank 103			Treatment

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 5 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
S-2-2	224-T Transuranic Storage and Assay Facility (TRUSAF)			Storage
S-2-4	Single-Shell Tanks		X	
	241-A Farm (6 tanks/2 diversion boxes)	200-PO-3		
	241-AX Farm (4 tanks/1 diversion box)	200-PO-3		
	241-B Farm (16 tanks/5 diversion boxes)	200-BP-7		
	241-BX Farm (12 tanks/6 diversion boxes)	200-BP-7		
	241-BY Farm (12 tanks/3 diversion boxes)	200-BP-7		
	241-C Farm (16 tanks/6 diversion boxes)	200-PO-3		
	241-S Farm (12 tanks/2 diversion boxes)	200-RO-4		
	241-SX Farm (15 tanks/2 diversion boxes)	200-RO-4		
	241-T Farm (16 tanks/6 diversion boxes)	200-TP-6		
	241-TX Farm (18 tanks/4 diversion boxes)	200-TP-5		
	241-TY Farm (6 tanks/1 diversion boxes)	200-TP-5		
	241-U Farm (16 tanks/8 diversion boxes)	200-UP-3		
T-2-5***	241-Z Treatment Tank (D-5)			Treatment
T-2-6	242-A Evaporator			Treatment
S-2-5	2727-S Nonradioactive Dangerous Waste Storage Facility		X	

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 6 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
TS-2-2	Hexone Storage and Treatment		X	
	276-S-141 Tank 276-S-142 Tank Railcar Storage Tanks (Future) Distillation System (Future) Incinerator (Future)			
T-3-1	300 Area Solvent Evaporator		X	
TS-3-1	300 Area Waste Acid System		X	
	313 Building Waste Acid Neutralization Tank 313 Building Centrifuge 313 Filter Press 333 Building Chromium Treatment Tanks (2 tanks) ***311 Neutralized Waste Tanks (2 tanks) 334-A Waste Acid Storage Tank (2 tanks)			

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 7 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
S-3-1	303-K Contaminated Waste Storage Facility		X	
T-3-2	303-M Uranium Oxide Facility			Treatment
TS-3-2	304 Concretion Facility and Storage Area		X	
	304 Concretion Facility 304 Storage Area			
S-3-2	305-B Storage Facility			Storage
D-3-1	300 Area Process Trenches (316-5)	300-FF-1	X	
T-3-3**	324 Sodium Removal Pilot Plant			Treatment
T-3-4	325 Waste Treatment Facility			Treatment

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 8 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
TS-3-3	3718-F Alkali Metal Treatment and Storage Facility		X	
	3718-F Burn Shed			
	3718-F Treatment Tank #1			
	3718-F Treatment Tank #2			
	3718-F Alkali Metal Treatment Facility Storage			
T-4-1	400 Area Maintenance and Storage Facility (MASF)			Treatment
S-4-1	4843 FFTF Sodium Storage Facility		X	
D-6-1	600 Area Nonradioactive Dangerous Waste Landfill	200-IU-3	X	
S-6-1	616 Nonradioactive Dangerous Waste Storage Facility			Storage
TS-2-3	B Plant			
	B Plant Waste Concentrator			Treatment
	B Plant Settle and Decant Tank			Treatment
	B Plant Filter			Treatment
	B Plant Radioactive Organic Waste Solvent Tank #1			Storage

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 9 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
	B Plant Radioactive Organic Waste Solvent Tank #2			Storage
	B Plant Radioactive Organic Waste Solvent Tank #3			Storage
	B Plant Radioactive Organic Waste Solvent Tank #4			Storage
	B Plant Radioactive Organic Waste Solvent Tank #5			Storage
	B Plant Radioactive Organic Waste Solvent Tank #6			Storage
	B Plant Radioactive Organic Waste Solvent Tank #7			Storage
	B Plant Storage Area			Storage
	B Plant Waste Pile			Storage
T-X-1	Biological Treatment Test Facilities			Treatment
TD-2-1	Grout			
	Grout Treatment Facility			Treatment
	Grout Treatment Facility Landfill			Treatment/Landfill
TS-2-4	Hanford Central Waste Complex			
	Waste Receiving and Processing (WRAP) Facility (Future)			Treatment
	Radioactive Mixed Waste Storage Facility			Storage

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 10 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
TS-2-5	Hanford Waste Vitrification Plant (HWVP) (Future)			Treatment/Storage
T-X-2	Physical and Chemical Treatment Test Facilities			Treatment
TS-2-6	Purex			
	*** Neutralization Tank E-5			Treatment
	*** E-F11 Concentrator			Treatment
	*** Neutralization Tank G-7			Treatment
	Ammonia Distillate Treatment System (Future Tank)			Treatment
	*** Neutralization Tank F-18			Treatment
	*** Neutralization Tank F-15			Treatment
	*** Neutralization Tank F-16			Treatment
	*** Neutralization Tank U3			Treatment
	*** Neutralization Tank U4			Treatment
	Purex Waste Piles			Storage
TS-3-4	Simulated High-Level Waste Slurry Treatment and Storage		X (or)	Treatment/Storage

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 11 of 11)

Treatment, Storage, and Disposal			Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit
T-2-7***	T Plant Treatment Tank			Treatment
T-X-3	Thermal Treatment Test Facilities			Treatment
T-11-1	1100 Area Hanford Patrol Academy Demolition Area			Treatment

*Post-Closure Permit required if closed as a land disposal unit in accordance with Subsection 6.3.3.
**Part A permit application may be withdrawn because unit(s) never handled or never will handle hazardous waste.
***Part A permit application may be withdrawn due to reclassification of unit(s) as treatment by generator.

APPENDIX C

Prioritized Listing of Operable Units. (sheet 1 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
1	1100-EM-1	1100-1	Acid Pit	EPA	CPP
		1100-2	Solvent Pit		CPP
		1100-3	Antifreeze Pit		CPP
		Horn Rapids Disposal	Landfill		CPP
		1100-4	Antifreeze Tank		CPP
		UN-1100-5	Unplanned Release		CPP
		UN-1100-6	Unplanned Release		CPP
2	300-FF-1 (GW addressed by 300-FF-5)	300 Ash Pits	Pit	EPA	CPP
		300 Filter Backwash Pond	Pond		CPP
		300 Retired Filter Backwash	Pond		CPP
		300 Retired RLWS*	Sewer		CPP
		300 Area RLWS* and 340 complex	Sewer		CPP
		300 Area sanitary sewer system	Sewer		CPP
		307	Retention Basin		CPP
		316-1	Pond		CPP
		316-2	Pond		CPP
		316-3	Trench		CPP
		316-5 (300 Area Process Trenches)	Trench		TSD (D-3-1
		618-12	Burial Ground		CPP
		618-4	Burial Ground		CPP
		618-5	Burial Ground		CPP
		628-4	Burn Pit		CPP
		UN-300-1	Unplanned Release		CPP
		UN-300-2	Unplanned Release		CPP
		UN-300-11	Unplanned Release		CPP
		UN-300-14	Unplanned Release		CPP
		UN-300-31	Unplanned Release		CPP
		UN-300-41	Unplanned Release		CPP
		UN-300-FF-1	Unplanned Release		CPP
2A	300-FF-5 (GW Operable Unit [O.U.])	300-FF-1	Source O.U.	EPA	CPP
		300-FF-2	Source O.U.		CPP
		300-FF-3	Source O.U.		CPP

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal
*RLWS = Radioactive Liquid Waste Sewer

APPENDIX C

Prioritized Listing of Operable Units. (sheet 2 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
3	200-BP-1	216-B-43	Crib	EPA	CPP
		216-B-44	Crib		CPP
		216-B-45	Crib		CPP
		216-B-46	Crib		CPP
		216-B-47	Crib		CPP
		216-B-48	Crib		CPP
		216-B-49	Crib		CPP
		216-B-50	Crib		CPP
		216-B-57	Crib		CPP
		216-B-61	Crib		CPP
		UN-200-E-89	Unplanned Release		RPP
		UN-200-E-110	Unplanned Release		CPP
		UN-200-E-63	Unplanned Release		CPP
		UN-200-E-9	Unplanned Release		CPP
4	100-HR-1	116-H-1	Trench	Ecology	RPP
	(GW addressed	116-H-2	Trench		RPP
	by 100-HR-3)	116-H-3	French Drain		RPP
		116-H-4	Crib		RPP
		116-H-5	Outfall Structure		RPP
		116-H-6 (183-H)	Retention basin		TSD (T-1-4)
		116-H-7	Retention basin		RPP
		116-H-9	Crib		RPP
		126-H-2	Demolition and Inert Landfill		RPP
		132-H-1	Stack		Other
		132-H-3	Pump Station		Other
		1607-H2	Septic Tank		RPP
		1607-H3	Septic Tank		RPP
4A	100-HR-3	100-HR-1	Source O. U.	Ecology	RPP
	(GW O.U.)	100-HR-2	Source O. U.		RPP
		100-DR-1	Source O. U.		RPP
		100-DR-2	Source O. U.		RPP
		100-DR-3	Source O. U.		RPP

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 3 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
5	100-DR-1 (GW addressed by 100-HR-3)	116-D-1A	Trench	Ecology	RPP
		116-D-1B	Trench		RPP
		116-D-2	Crib		RPP
		116-D-3	French Drain		RPP
		116-D-4	French Drain		RPP
		116-D-5	Outfall Structure		RPP
		116-D-6	French Drain		RPP
		116-D-7	Retention basin		RPP
		116-D-9	Crib		RPP
		116-D-10	Pit		RPP
		116-DR-1	Trench		RPP
		116-DR-2	Trench		RPP
		116-DR-5	Outfall Structure		RPP
		116-DR-9	Retention basin		RPP
		120-D-1	Ponds		TSD (D-1-1)
		120-D-2	Storage Tank		RPP
		126-D-1	Ash pit		RPP
		126-D-2	Demolition and Inert Landfill		RPP
		126-D-3	Brine Pit		RPP
		128-D-2	Burn Pit		RPP
		130-D-1	Storage tank		RPP
		132-D-1	Building		RPP
		132-D-2	Building		RPP
		132-D-3	Pump Station		Other
		1607-D2	Septic tank		RPP
		1607-D4	Septic tank		RPP
		1607-D5	Septic tank		RPP
		628-3	Burn Pit		RPP
6	100-BC-1 (GW addressed by 100-BC-5)	116-B-1	Trench	EPA	CPP
		116-B-10	French drain		CPP
		116-B-11	Retention basin		CPP
		116-B-12	Crib		CPP
		116-B-13	Trench		CPP
		116-B-14	Trench		CPP
		116-B-15	Pit		CPP
		116-B-16	Storage Tank		CPP
		116-B-2	Trench		CPP
		116-B-3	Crib		CPP
		116-B-4	French Drain		CPP
		116-B-5	Crib		CPP
		116-B-6A	Crib		CPP
		116-B-6B	Crib		CPP

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
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APPENDIX C

Prioritized Listing of Operable Units. (sheet 4 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	100-BC-1 (GW addressed by 100-BC-5) (Continued)	116-B-7	Outfall Structure		CPP
		116-B-9	French Drain		CPP
		116-C-1	Trench		CPP
		116-C-5	Retention basin		CPP
		118-B-5	Burial Ground		CPP
		118-B-7	Burial Ground		CPP
		118-B-10	Pit		CPP
		120-B-1	Sump		CPP
		126-B-1	Ash pit		CPP
		126-B-2	Demolition and Inert Landfill		CPP
		126-B-3	Demolition and Inert Landfill		CPP
		126-B-4	Brine Pit		CPP
		128-B-1	Burning pit		CPP
		128-B-2	Burning Pit		CPP
		128-B-3	Burning Pit		CPP
		128-C-1	Burning Pit		CPP
		132-B-1	Building		CPP
		132-B-3	Stack		CPP
		132-B-4	Building		CPP
		132-B-5	Building		CPP
		132-B-6	Outfall structure		CPP
		132-C-2	Outfall structure		CPP
		1607-B1	Septic Tank		CPP
		1607-B2	Septic Tank		CPP
		1607-B3	Septic Tank		CPP
		1607-B4	Septic Tank		CPP
		1607-B5	Septic Tank		CPP
		1607-B6	Septic Tank		CPP
		1607-B7	Septic Tank		CPP
6A	100-BC-5 (GW O.U.)	100-BC-1	Source O. U.	EPA	CPP
		100-BC-2	Source O. U.		CPP
		100-BC-3	Source O. U.		CPP
		100-BC-4	Source O. U.		CPP

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 5 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
7	100-KR-1 (GW addressed by 100-KR-4)	116-KE-4	Retention Basin	EPA	CPP
		116-KW-3	Retention Basin		CPP
		116-K-1	Crib		CPP
		116-K-2	Trench		CPP
		116-K-3	Outfall Structure		CPP
7A	100-KR-4 (GW O.U.)	100-KR-1	Source O. U.	EPA	CPP
		100-KR-2	Source O. U.		CPP
		100-KR-3	Source O. U.		CPP
8	100-NR-1	116-N-1 (1301-N)	Crib	Ecology	TSD (D-1-2)
		116-N-2	Storage Tank		RPP
		116-N-3 (1325-N)	Crib		TSD (D-1-2)
		124-N-4	Septic Tank		RPP
		128-N-1	Burning Pit		RPP
		UN-100-N-4	Unplanned Release		RPP
		UN-100-N-5	Unplanned Release		RPP
		UN-100-N-8	Unplanned Release		RPP
		UN-100-N-9	Unplanned Release		RPP
		UN-100-N-13	Unplanned Release		RPP
		UN-100-N-14	Unplanned Release		CPP
		UN-100-N-17	Unplanned Release		RPP
		UN-100-N-20	Unplanned Release		RPP
		UN-100-N-24	Unplanned Release		RPP
		UN-100-N-25	Unplanned Release		RPP
		UN-100-N-26	Unplanned Release		RPP
		UN-100-N-31	Unplanned Release		RPP
		120-N-1 (1324-N)	Pond		TSD (T-1-2)
		120-N-2 (1324-NA)	Neutralization unit		TSD (T-1-2)
		120-N-3	French Drain		RPP
		120-N-5	Neutralization unit		RPP
		120-N-6	French Drain		RPP
		120-N-7	French Drain		RPP
		120-N-8	French Drain		RPP
		124-N-1	Septic Tank		RPP
		124-N-2	Septic Tank		RPP
		124-N-5	Septic Tank		RPP
		124-N-6	Septic Tank		RPP
		124-N-7	Septic Tank		RPP
		124-N-8	Septic Tank		RPP
		124-N-9	Septic Tank		RPP
		124-N-10	Sewer		RPP
		130-N-1	Pond		RPP

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 6 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	100-NR-1 (Continued)	UN-100-N-5	Unplanned Release		RPP
		UN-100-N-6	Unplanned Release		RPP
		UN-100-N-11	Unplanned Release		RPP
		UN-100-N-15	Unplanned Release		RPP
		UN-100-N-18	Unplanned Release		RPP
		UN-100-N-19	Unplanned Release		RPP
		UN-100-N-21	Unplanned Release		RPP
		UN-100-N-22	Unplanned Release		RPP
		UN-100-N-23	Unplanned Release		RPP
		UN-100-N-33	Unplanned Release		RPP
		UN-100-N-34	Unplanned Release		RPP
		UN-600-17	Unplanned Release		RPP
		116-N-4	Storage Tank		
		118-N-1	Silos		
		124-N-3	Septic Tank		
		UN-100-N-1	Unplanned Release		
		UN-100-N-2	Unplanned Release		RPP
		UN-100-N-3	Unplanned Release		
		UN-100-N-7	Unplanned Release		
		UN-100-N-10	Unplanned Release		
		UN-100-N-12	Unplanned Release		
		UN-100-N-29	Unplanned Release		
		UN-100-N-30	Unplanned Release		
		UN-100-N-32	Unplanned Release		
		UN-100-N-35	Unplanned Release		
9	100-NR-2 (GW O.U.)	100-NR-1	Source O.U.	Ecology	RPP
10	100-FR-1	116-F-1	Trench	EPA	CPP
		116-F-10	French Drain		CPP
		116-F-11	French Drain		CPP
		116-F-12	French Drain		CPP
		116-F-13	French Drain		CPP
		116-F-14	Retention basin		CPP
		116-F-15	Crib		CPP
		116-F-16	Outfall		CPP
		116-F-2	Trench		CPP
		116-F-3	Trench		CPP
		116-F-4	Crib		CPP
		116-F-5	Crib		CPP
		116-F-6	Trench		CPP
		116-F-7	French Drain		CPP
		116-F-8	Outfall Structure		CPP
		116-F-9	Trench		CPP

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 7 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	100-FR-1 (Continued)	126-F-2	Demolition and Inert Landfill		CPP
		128-F-2	Burning Pit		CPP
		132-F-3	Building		CPP
		132-F-4	Stack		Other
		132-F-5	Building		CPP
		132-F-6	Pump Station		Other
		1607-F2	Septic Tank		CPP
		1607-F3	Septic Tank		CPP
		1607-F4	Septic Tank		CPP
		1607-F5	Septic Tank		CPP
		1607-F6	Septic Tank		CPP
		UN-100-F-1	Unplanned Release		CPP
10A	100-FR-3 (GW O.U.)	100-FR-1	Source O.U.	EPA	CPP
		100-FR-2	Source O.U.		CPP
11	200-UP-2	200 West constr. surface laydown area	Burial ground	Ecology	CPP
		207-U	Retention Basin		CPP
		216-U-1&2	Crib		CPP
		216-U-12	Crib		TSD (D-2-8)
		216-U-14	Ditch		CPP
		216-U-15	Trench		CPP
		216-U-16	Crib		CPP
		216-U-17	Crib		CPP
		216-U-3	French Drain		CPP
		216-U-4	Reverse Well		CPP
		216-U-4A	French Drain		CPP
		216-U-4B	French Drain		CPP
		216-U-5	Trench		CPP
		216-U-6	Trench		CPP
		216-U-7	French Drain		CPP
		216-U-8	Crib		CPP
		241-U-151	Diversion Box		CPP
		241-U-152	Diversion Box		CPP
		241-U-302	Catch tank		CPP
		241-U-361	Settling Tank		CPP
		241-UX-154	Diversion Box		CPP
		241-UX-302	Catch Tank		CPP
		241-WR Vault	Vault		CPP

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 8 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	200-UP-2 (Continued)	2607-W5	Septic Tank		CPP
		2607-W7	Septic Tank		CPP
		UN-200-W-6	Unplanned Release		CPP
		UN-200-W-19	Unplanned Release		CPP
		UN-200-W-33	Unplanned Release		CPP
		UN-200-W-39	Unplanned Release		CPP
		UN-200-W-46	Unplanned Release		CPP
		UN-200-W-48	Unplanned Release		CPP
		UN-200-W-55	Unplanned Release		CPP
		UN-200-W-60	Unplanned Release		CPP
		UN-200-W-78	Unplanned Release		CPP
		UN-200-W-86	Unplanned Release		CPP
		UN-200-W-101	Unplanned Release		CPP
		UN-200-W-117	Unplanned Release		CPP
		UN-200-W-118	Unplanned Release		CPP
		UN-200-W-125	Unplanned Release		CPP
		UN-200-W-161	Unplanned Release		CPP
12	100-BC-2 (GW addressed by 100-BC-5)	116-C-2A	Crib	EPA	CPP
		116-C-2B	Pump Station		CPP
		116-C-2C	Sand Filter		CPP
		116-C-3	Storage Tank		CPP
		116-C-6	Pit		CPP
		118-C-2	Storage Tank		CPP
		132-C-1	Stack		Other
		132-C-3	Building		CPP
		1607-B8	Septic Tank		CPP
		1607-B10	Septic Tank		CPP
		1607-B11	Septic Tank		CPP
13	200-BP-5	216-B-5	Reverse Well	EPA	CPP
		216-B-56	Crib		CPP
		216-B-59A	Trench		CPP
		216-B-59B	Retention Basin		CPP
		216-B-9TF	Crib		CPP
		241-B-154	Diversion Box		CPP
		241-B-302-B	Catch Tank		CPP
		241-B-361	Settling Tank		CPP
		UN-200-E-7	Unplanned Release		CPP
		UN-200-E-45	Unplanned Release		CPP

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 9 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
14	100-DR-2 (GW addressed by 100-HR-3)	116-DR-3	Trench	Ecology	RPP
		116-DR-4	Crib		RPP
		116-DR-6	Trench		RPP
		116-DR-7	Crib		RPP
		116-DR-8	French Drain		RPP
		118-D-5	Burial Ground		RPP
		126-DR-1	Demolition and Inert Landfill		RPP
		132-DR-1	Pump Station		RPP
		1607-D3	Septic Tank		RPP
15	200-ZP-1	216-Z-1&2TF	Crib	EPA	CPP
		216-Z-1A	Drain Field		CPP
		216-Z-3	Crib		CPP
		216-Z-12	Crib		CPP
		216-Z-13	French Drain		CPP
		216-Z-14	French Drain		CPP
		216-Z-15	French Drain		CPP
		216-Z-18	Crib		CPP
		241-Z-361	Settling Tank		CPP
		2607-Z	Septic tank		CPP
		UN-200-W-11	Unplanned Release		CPP
		UN-200-W-23	Unplanned Release		CPP
		UN-200-W-74	Unplanned Release		CPP
		UN-200-W-75	Unplanned Release		CPP
		UN-200-W-89	Unplanned Release		CPP
		UN-200-W-103	Unplanned Release		CPP
		UN-200-W-90	Unplanned Release		CPP
		UN-200-W-91	Unplanned Release		CPP
		UN-200-W-159	Unplanned Release		CPP
16	100-KR-2 (GW addressed by 100-KR-4)	130-KE-1	Storage tank	EPA	CPP
		130-KW-1	Storage tank		CPP
		116-KE-1	Crib		CPP
		116-KE-2	Crib		CPP
		116-KE-3	Reverse Well		CPP
		116-KW-1	Crib		CPP
		116-KW-2	Reverse Well		CPP
		118-K-1	Burial Ground		CPP
		120-KE-8	Brine pit		CPP

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 10 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	100-KR-2 (GW addressed by 100-KR-4) (Continued)	120-KW-6	Brine pit		CPP
		126-K-1	Demolition and Inert Landfill		CPP
		1607-K4	Septic Tank		CPP
		1607-K6	Septic Tank		CPP
		130-KE-2	Storage Tank		CPP
		130-kW-2	Storage Tank		CPP
		130-K-1	Storage Tank		CPP
		130-K-2	Storage Tank		CPP
		UN-100-K-1	Unplanned Release		CPP
17	200-BP-4	216-B-11A&B	Reverse Well		
		216-B-51	French drain		
		216-B-7A&B	Crib		
		216-B-8TF	Crib		
18	200-BP-11	216-B-3 (B Pond)	Pond	Ecology	TSD (D-2-5)
		216-B-3-1	Ditch		RPP
		216-B-3-2	Ditch		RPP
		216-B-3-3	Ditch		TSD (D-2-5)
		216-B-3A	Pond		TSD (D-2-5)
		216-B-3B	Pond		TSD (D-2-5)
		216-B-3C	Pond		TSD (D-2-5)
		216-E-25	Pond		RPP
		UN-200-E-14	Unplanned Release		RPP
		UN-200-E-92	Unplanned Release		RPP
19	200-PO-2	216-A-10	Crib		TSD (D-2-2)
		216-A-15	French Drain		
		216-A-2	Crib		
		216-A-21	Crib		
		216-A-27	Crib		
		216-A-31	Crib		
		216-A-36A	Crib		
		216-A-36B	Crib		TSD (D-2-4)
		216-A-38-1	Crib		
		216-A-4	Crib		
		216-A-45	Crib		
		216-A-5	Crib		
		299-E24-111	Injection Well		
		UN-200-E-117	Unplanned Release		

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 11 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	200-PO-2 (Continued)	UN-200-E-13	Unplanned Release		
		UN-200-E-22	Unplanned Release		
		UN-200-E-25	Unplanned Release		
		UN-200-E-39	Unplanned Release		
		UN-200-E-40	Unplanned Release		
		UN-200-E-97	Unplanned Release		
20	200-PO-5	207-A	Retention Basin		
		216-A-1	Crib		
		216-A-16	French Drain		
		216-A-17	French Drain		
		216-A-18	Trench		
		216-A-19	Trench		
		216-A-20	Trench		
		216-A-23A	French Drain		
		216-A-23B	French Drain		
		216-A-24	Crib		
		216-A-29	Ditch		
		216-A-34	Ditch		
		216-A-7	Crib		
		216-A-8	Crib		
		216-A-524	Control Structure		
		241-A-302B	Catch Tank		
		2607-EC	Septic Tank		
		UN-200-E-56	Unplanned Release		
		UN-200-E-67	Unplanned Release		TSD (D-2-3)
B	100-BC-3 (GW addressed by 100-BC-5)	118-B-2	Burial Ground	EPA	CPP
		118-B-3	Burial Ground		CPP
		118-B-4	Burial Ground		CPP
		118-B-6	Burial Ground		CPP
B	100-BC-4 (GW addressed by 100-BC-5)	118-B-1	Burial Ground	EPA	
		118-C-1	Burial Ground		
		1607-B9	Septic Tank		
B	100-DR-3 (GW addressed by 100-HR-3)	116-DR-10	Pit	Ecology	
		118-D-1	Burial Ground		
		118-D-2	Burial Ground		
		118-D-3	Burial Ground		
		118-D-4	Burial Ground		
		118-DR-1	Burial Ground		
		128-D-1	Burning pit		
		1607-D1	Septic Tank		

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 12 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
B	100-FR-2	118-F-1	Burial Ground		
		118-F-2	Burial Ground		
		118-F-3	Burial Ground		
		118-F-4	Burial Ground		
		118-F-5	Burial Ground		
		118-F-6	Burial Ground		
		118-F-7	Burial Ground		
		118-F-9	Burial Ground		
		120-F-1	Trench		
		126-F-1	Ash pit		
		128-F-1	Burning pit		
		128-F-3	Burning Pit		
		1607-F1	Septic Tank		
B	100-HR-2 (GW addressed by 100-HR-3)	118-H-1	Burial Ground	Ecology	RPP
		118-H-2	Burial Ground		RPP
		118-H-3	Burial Ground		RPP
		118-H-4	Burial Ground		RPP
		118-H-5	Burial ground		RPP
		126-H-1	Ash pit		RPP
		128-H-1	Burning pit		RPP
		128-H-2	Burning pit		RPP
		128-H-3	Burning pit		RPP
		132-H-2	Building		RPP
		1607-H1	Septic Tank		RPP
		1607-H4	Septic Tank		RPP
B	100-KR-3 (GW addressed by 100-KR-4)	120-KE-1	French Drain	EPA	CPP
		120-KW-2	French Drain		CPP
		120-KE-3	Trench		CPP
		120-KE-2	French Drain		CPP
		120-KW-5	Storage Tank		CPP
		120-KE-6	Storage Tank		CPP
		120-KE-9	Brine pit		CPP
		120-KW-1	French Drain		CPP
		120-KW-7	Brine pit		CPP
		128-K-1	Burning pit		CPP
		128-K-2	Burning pit		CPP
		130-K-3	Storage tank		CPP
		1607-K1	Septic Tank		CPP
		1607-K2	Septic Tank		CPP
		1607-K3	Septic Tank		CPP
		1607-K5	Septic Tank		CPP

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 13 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
B	100-IU-1	Army Munitions Burial Site Riverland Railroad Pit Car Wash Pit	Burial Ground		
B	200-BP-2	216-B-14	Crib		
		216-B-15	Crib		
		216-B-16	Crib		
		216-B-17	Crib		
		216-B-18	Crib		
		216-B-19	Crib		
		216-B-20	Trench		
		216-B-21	Trench		
		216-B-22	Trench		
		216-B-23	Trench		
		216-B-24	Trench		
		216-B-25	Trench		
		216-B-26	Trench		
		216-B-27	Trench		
		216-B-28	Trench		
		216-B-29	Trench		
		216-B-30	Trench		
		216-B-31	Trench		
		216-B-32	Trench		
		216-B-33	Trench		
		216-B-34	Trench		
		216-B-52	Trench		
		216-B-53A	Trench		
		216-B-53B	Trench		
		216-B-54	Trench		
		216-B-58	Trench		
		UN-200-E-83	Unplanned Release		
B	200-PO-1	216-A-11	French Drain		
		216-A-12	French Drain		
		216-A-13	French Drain		
		216-A-14	French Drain		
		216-A-22	French Drain		
		216-A-26	French Drain		
		216-A-26A	French Drain		
		216-A-28	French Drain		

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RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 14 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	200-PO-1 (Continued)	216-A-3	Crib		
		216-A-32	Crib		
		216-A-33	French Drain		
		216-A-35	French Drain		
		216-A-40	Trench		
		216-A-41	Crib		
		216-A-9	Crib		
		218-E-1	Burial Ground		
		218-E-13	Burial Ground		
		241-A-151	Diversion Box		
		241-A-302A	Catch Tank		
		2607-E6	Septic Tank		
		2607-EA	Septic Tank		
		UN-200-E-10	Unplanned Release		
		UN-200-E-11	Unplanned Release		
		UN-200-E-12	Unplanned Release		
		UN-200-E-15	Unplanned Release		
		UN-200-E-19	Unplanned Release		
		UN-200-E-20	Unplanned Release		
		UN-200-E-26	Unplanned Release		
		UN-200-E-28	Unplanned Release		
		UN-200-E-31	Unplanned Release		
		UN-200-E-33	Unplanned Release		
		UN-200-E-35	Unplanned Release		
		UN-200-E-42	Unplanned Release		
		UN-200-E-49	Unplanned Release		
		UN-200-E-58	Unplanned Release		
		UN-200-E-60	Unplanned Release		
		UN-200-E-65	Unplanned Release		
		UN-200-E-88	Unplanned Release		
		UN-200-E-96	Unplanned Release		
		UN-200-E-114	Unplanned Release		
		UN-200-E-142	Unplanned Release		
B	200-PO-4	216-A-30	Crib		
		216-A-37-1	Crib		
		216-A-37-2	Crib		
		216-A-42	Retention Basin		
		216-A-6	Crib		
		2607-EL	Septic Tank		

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 15 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
B	200-SO-1	200-E Power Ditch	House Ditch		
		216-C-1	Crib		
		216-C-10	Crib		
		216-C-2	Reverse Well		
		216-C-3	Crib		
		216-C-4	Crib		
		216-C-5	Crib		
		216-C-6	Crib		
		216-C-7	Crib		
		216-C-9	Pond		
		218-C-9	Burial Ground		
		241-CX-70	Storage Tank		
		241-CX-71	Neutralization Tank		
		241-CX-72	Storage Tank		
		2607-E5	Septic Tank		
		2607-E7A	Septic Tank		
		Hot Semi-Works Valve Pit	Valve Pit		
		UN-200-E-36	Unplanned Release		
		UN-200-E-37	Unplanned Release		
		UN-200-E-98	Unplanned Release		
		UN-200-E-141	Unplanned Release		
B	200-TP-1	216-T-21	Trench		
		216-T-22	Trench		
		216-T-23	Trench		
		216-T-24	Trench		
		216-T-25	Trench		
		216-T-32	Crib		
		216-T-36	Crib		
		216-T-5	Trench		
		216-T-7TF	Crib		
B	200-TP-2	2607-WT	Septic Tank		
		200-W Powerhouse Pond	Pond		
		216-T-13	Trench		
		216-T-18	Crib		
		216-T-19TF	Crib		
		216-T-20	Trench		
		216-T-26	Crib		
		216-T-27	Crib		
		216-T-28	Crib		
		216-T-31	French Drain		

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 16 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	200-TP-2 (Continued)	241-TX-152	Diversion Box		
		241-TX-155	Diversion Box		
		241-TX-302B	Catch Tank		
		UN-200-W-14	Unplanned Release		
		UN-200-W-29	Unplanned Release		
		UN-200-W-99	Unplanned Release		
		UN-200-W-113	Unplanned Release		
		UN-200-W-135	Unplanned Release		
B	200-TP-4	216-T-1	Ditch		
		216-T-10	Trench		
		216-T-11	Trench		
		216-T-2	Reverse Well		
		216-T-29	Crib		
		216-T-3	Reverse Well		
		216-T-33	Crib		
		216-T-34	Crib		
		216-T-35	Crib		
		216-T-8	Crib		
		216-T-9	Trench		
		218-W-8	Burial Ground		
		241-T-361	Settling Tank		
		241-TX-154	Diversion Box		
		241-TX-302C	Catch Tank		
		2607-W3	Septic Tank		
		2607-W4	Septic Tank		
		UN-200-W-2	Unplanned Release		
		UN-200-W-3	Unplanned Release		
		UN-200-W-4	Unplanned Release		
		UN-200-W-8	Unplanned Release		
		UN-200-W-27	Unplanned Release		
		UN-200-W-38	Unplanned Release		
		UN-200-W-58	Unplanned Release		
		UN-200-W-65	Unplanned Release		
		UN-200-W-67	Unplanned Release		
		UN-200-W-73	Unplanned Release		
		UN-200-W-77	Unplanned Release		
		UN-200-W-85	Unplanned Release		
		UN-200-W-98	Unplanned Release		
		UN-200-W-102	Unplanned Release		
		UN-200-W-137	Unplanned Release		

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 17 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
B	200-ZP-2	207-Z	Retention Basin		
		216-Z-10	Reverse Well		
		216-Z-16	Crib		
		216-Z-17	Trench		
		216-Z-4	Trench		
		216-Z-5	Crib		
		216-Z-6	Crib		
		216-Z-7	Crib		
		216-Z-8	French Drain		
		216-Z-9	Trench		
		2607-W8	Septic Tank		
		2607-WA	Septic Tank		
		2607-Z8	Septic Tank		
		UN-200-W-79	Unplanned Release		
		UN-200-W-130	Unplanned Release		
B	200-IU-3	Central Landfill	Landfill		
		Original Central Landfill	Landfill		
		NRDW* Landfill	Landfill		TSD (D-6-1
		6607-1	Septic Tank		
		6607-2	Septic Tank		
		UN-600-12	Unplanned Release		
B	300-FF-2 (GW addressed by 300-FF-5)	300 Vitrification Test Site	Test treatment Facility	EPA	CPP
		618-1	Burial Ground		CPP
		618-13	Burial Ground		CPP
		618-2	Burial Ground		CPP
		618-3	Burial Ground		CPP
		618-7	Burial Ground		CPP
		618-8	Burial Ground		CPP
		618-9	Burial Ground		CPP
B	300-FF-3 (GW addressed by 300-FF-5)	300 Interim Filter Backwash Disposal	Neutralization Unit	EPA	CPP
		309-TW-1	Storage Tank		CPP
		309-TW-2	Storage Tank		CPP
		309-TW-3	Storage Tank		CPP
		315 Retired Drain Field	Drain Field		CPP
		331 Drain field	Drain Field		

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal
* = Arid Lands Ecology Reserve

APPENDIX C

Prioritized Listing of Operable Units. (sheet 18 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	300-FF-3 (GW addressed by 300-FF-5) (Continued)	331 Trench 1	Trench		CPP
		331 Trench 2	Trench		CPP
		335 & 336 Retired Drain Fields	Drain Fields		CPP
			Burial Ground		CPP
		618-6	Unplanned Release		CPP
		UN-300-4	Unplanned Release		CPP
		UN-300-10	Unplanned Release		CPP
		UN-300-12	Unplanned Release		CPP
		UN-300-13	Unplanned Release		CPP
		UN-300-17	Unplanned Release		CPP
		UN-300-18	Unplanned Release		CPP
		UN-300-39	Unplanned Release		CPP
		UN-300-40	Unplanned Release		CPP
		UN-300-42	Unplanned Release		CPP
		UN-300-43	Unplanned Release		CPP
		UN-300-44	Unplanned Release		CPP
		UN-300-45	Unplanned Release		
		UN-300-5	Unplanned Release		
		UN-300-7			
C	100-IU-2	628-1	Burning pit		
		East White Bluffs Landfill	Landfill		
		White Bluffs Landfill	Landfill		
		J. A. Jones #2	Burial Ground		
C	100-IU-3	USBR* 2,4-D Burial Site	Landfill		
		Wahulke Slope NIKE Missile Base	Test Treatment or Support Facility		
C	1100-EM-2	1100 Hoist Rams	Storage Tank		
		1100 HWSA*	Staging Area		
		1100 Steam Pad Tank #2	Storage Tank		
		1100 Steam Pad Tank #3	Storage Tank		
		1100 Used Oil Tank #4	Storage Tank		
		1100 Used Oil Tank #5	Storage Tank		
		1100 Used Oil Tank #6	Storage Tank		
		700 Area Waste Solvent Tank	Storage Tank		

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RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal
* = Arid Lands Ecology Reserve

APPENDIX C

Prioritized Listing of Operable Units. (sheet 19 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
C	1100-EM-3	1208 HWSA	Staging Area		
		1226 HWSA	Staging Area		
		1234 Storage Yard	Staging Area		
		1240 HWSA	Staging Area		
		Jones Yard HWSA	Staging Area		
		Underground Used Oil Tank	Storage Tank		
		UN-3000-1	Unplanned Release		
C	1100-IU-1	6652-C SSL** Active Septic Tank	Septic Tank		
		6652-C SSL** Inactive Septic Tank	Septic Tank		
		6652-I ALE*** Septic Tank	Septic Tank		
		6652-G ALE Septic Tank	Septic Tank		
		Rattlesnake Mtn. NIKE Missile Base	Test Treatment or Support Facility		
C	200-BP-10	218-E-2	Burial Ground		
		218-E-2A	Burial Ground		
		218-E-4	Burial Ground		
		218-E-5	Burial Ground		
		218-E-5A	Burial Ground		
		218-E-9	Burial Ground		
		UN-200-E-61	Unplanned Release		
		UN-200-E-95	Unplanned Release		
		UN-200-E-112	Unplanned Release		
C	200-BP-3	216-B-35	Trench		
		216-B-36	Trench		
		216-B-37	Trench		
		216-B-38	Trench		
		216-B-39	Trench		
		216-B-40	Trench		
		216-B-41	Trench		
		216-B-42	Trench		

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal
* = Arid Lands Ecology Reserve
** = Space Science Laboratory
*** = Hazardous Waste Staging Area

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Prioritized Listing of Operable Units. (sheet 20 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
C	200-BP-6	216-B-10A	Crib		Other
		216-B-10B	Crib		
		216-B-13	French Drain		
		216-B-4	Reverse Well		
		216-B-6	Reverse Well		
		216-B-60	Crib		
		218-E-6	Burial Ground		
		218-E-7	Burial Ground		
		241-BX-154	Diversion Box		
		241-BX-155	Diversion Box		
		241-BX-302B	Catch Tank		
		241-BX-302C	Catch Tank		
		241-ER-152	Diversion Box		
		270-E Condensate Neutralization Tank	Neutralization Tank		
		2607-E3	Septic Tank		
		2607-E4	Septic Tank		
		Tile Field South of 218-E-4	Drain Field		
		UN-200-E-1	Unplanned Release		
		UN-200-E-2	Unplanned Release		
		UN-200-E-3	Unplanned Release		
		UN-200-E-41	Unplanned Release		
		UN-200-E-44	Unplanned Release		
		UN-200-E-52	Unplanned Release		
		UN-200-E-54	Unplanned Release		
		UN-200-E-55	Unplanned Release		
		UN-200-E-69	Unplanned Release		
		UN-200-E-80	Unplanned Release		
		UN-200-E-85	Unplanned Release		
		UN-200-E-87	Unplanned Release		
		UN-200-E-90	Unplanned Release		
		UN-200-E-103	Unplanned Release		
		UN-200-E-140	Unplanned Release		
C	200-BP-8	207-B	Retention Basin		
		216-B-2-1	Ditch		
		216-B-2-2	Ditch		
		216-B-2-3	Ditch		
		216-B-63	Ditch		TSD (D-2-6)
		2607-E9	Septic Tank		

CPP = CERCLA Past-Practice
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APPENDIX C

Prioritized Listing of Operable Units. (sheet 21 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
C	200-BP-9	200 Area construction pit	Pit		
		216-B-12	Crib		
		216-B-55	Crib		
		216-B-62	Crib		
		216-B-64	Retention Basin		
		241-ER-151	Diversion Box		
		241-ER-311	Catch Tank		
		UN-200-E-64	Unplanned Release		
C	200-NO-1	216-N-1	Pond		
		216-N-2	Trench		
		216-N-3	Trench		
		216-N-4	Pond		
		216-N-5	Trench		
		216-N-6	Pond		
		216-N-7	Trench		
C	200-PO-6	200-E burning pit	Pit		
		218-E-12A	Burial Ground		
		218-E-8	Burial Ground		
		UN-200-E-62	Unplanned Release		
	200-RO-1	216-S-10D	Ditch		TSD (D-2-7)
		216-S-10P	Pond		TSD (D-2-7)
		216-S-11	Pond		
		216-S-16D	Ditch		
		216-S-16P	Pond		
		216-S-17	Pond		
		216-S-172	Control structure		
		216-S-19	Pond		
		216-S-25	Crib		
		216-S-5	Crib		
		216-S-6	Crib		
		216-U-9	Ditch		
		2607-WZ	Septic Tank		
		2904-S-160	Control structure		
		2904-S-170	Control structure		
		2904-S-171	Control structure		

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 22 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
C	200-RO-2	207-S	Retention Basin		
		216-S-1&2	Crib		
		216-S-13	Crib		
		216-S-15	Pond		
		216-S-18	Trench		
		216-S-23	Crib		
		216-S-3	French Drain		
		216-S-7	Crib		
		216-S-8	Trench		
		216-S-9	Crib		
		218-W-9	Burial Ground		
		241-S-151	Diversion Box		
		241-S-302A	Catch Tank		
		241-SX-302	Catch Tank		
		UN-200-W-32	Unplanned Release		
		UN-200-W-34	Unplanned Release		
		UN-200-W-41	Unplanned Release		
		UN-200-W-42	Unplanned Release		
		UN-200-W-49	Unplanned Release		
		UN-200-W-50	Unplanned Release		
		UN-200-W-52	Unplanned Release		
		UN-200-W-69	Unplanned Release		
		UN-200-W-82	Unplanned Release		
		UN-200-W-83	Unplanned Release		
		UN-200-W-108	Unplanned Release		
		UN-200-W-109	Unplanned Release		
		UN-200-W-114	Unplanned Release		
		UN-200-W-123	Unplanned Release		
		UN-200-W-127	Unplanned Release		
C	200-RO-3	207-SL	Retention Basin		
		216-S-12	Trench		
		216-S-14	Trench		
		216-S-20	Crib		
		216-S-22	Crib		
		216-S-26	Crib		
		218-W-7	Burial Ground		
		240-S-151	Diversion Box		
		240-S-152	Diversion Box		
		240-S-302	Catch Tank		
		2607-W6	Septic Tank		

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Prioritized Listing of Operable Units. (sheet 23 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	200-RO-3 (Continued)	UN-200-W-116	Unplanned Release		
		UN-200-W-30	Unplanned Release		
		UN-200-W-35	Unplanned Release		
		UN-200-W-43	Unplanned Release		
		UN-200-W-56	Unplanned Release		
		UN-200-W-61	Unplanned Release		
C	200-TP-3	207-T	Retention Basin		
		216-T-12	Trench		
		216-T-14	Trench		
		216-T-15	Trench		
		216-T-16	Trench		
		216-T-17	Trench		
		216-T-4-1D	Ditch		
		216-T-4-2	Ditch		
		216-T-4A	Pond		
		216-T-4B	Pond		
		216-T-6	Crib		
		UN-200-W-7	Unplanned Release		
		UN-200-W-63	Unplanned Release		
	200-UP-1	216-S-21	Crib		
		216-S-4	French Drain		
		216-U-10	Pond		
		216-U-11	Ditch		
		216-U-13	Trench		
		216-Z-11	Ditch		
		216-Z-19	Ditch		
		216-Z-1D	Ditch		
		216-Z-20	Crib		
		2607-W9	Septic Tank		
		UN-200-W-68	Unplanned Release		
C	200-ZP-3	218-W-1	Burial Ground		
		218-W-1A	Burial Ground		
		218-W-2	Burial Ground		
		218-W-2A	Burial Ground		
		218-W-3	Burial Ground		
		218-W-4A	Burial Ground		
		218-W-11	Burial Ground		
		2607-WWA	Septic Tank		
		Z-Plant Burning Pit	Pit		
		UN-200-W-44	Unplanned Release		
		UN-200-W-132	Unplanned Release		

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Prioritized Listing of Operable Units. (sheet 24 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
C	200-IU-4	Hanford Townsite Landfill	Landfill		
		Hanford Trailer Camp Landfill	Landfill		
		213 J & K	Crib		
		P-11	Crib		
		UN-600-16	Unplanned Release		
		UN-600-18	Unplanned Release		
		UN-600-19	Spill		
C	300-IU-1	316-4	Crib		
		618-10	Burial Ground		
		618-11	Burial Ground		
		J. A. Jones #1	Landfill		
C	300-FF-4	4713-B French drain	French Drain		
		4722-B French drain	French Drain		
		4722-C French drain	French Drain		
		French drain #10	French Drain		
		French drain #10A	French Drain		
		French drain #1A	French Drain		
		French drain #1B	French Drain		
		French drain #2	French Drain		
		French drain #3	French Drain		
		French drain #4	French Drain		
		French drain #5	French Drain		
		French drain #6	French Drain		
		French drain #7	French Drain		
		French drain #8	French Drain		
		French drain #9	French Drain		
		403 French drain	French Drain		
		4721 French drain	French Drain		
		400 Area process pond and sewer	Pond		
		400 Area retired french drains	French Drain		
		400 Area retired sanitary pond	Pond		
		400 Area retired septic tanks	Septic Tank		
		Sand bottom trench	Trench		

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Prioritized Listing of Operable Units. (sheet 25 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	300-FF-4 (Continued)	Sanitary sewer	Drain Field		
		Sanitary tile field	Drain Field		
		4831 laydown · hazardous staging	Staging area		
		UN-400-1	Unplanned Release		
D	100-IU-4	Sodium dichromate barrel disposal	Landfill		
D	100-IU-5	White Bluffs pickling acid	Crib		
D	200-SS-1	200-E Powerhouse Ash Pit	Ash pit		
		218-E-3	Burial ground		
		2607-E1	Septic tank		
		2607-E7B	Septic tank		
		2607-E8	Septic tank		
		2607-EH	Septic tank		
		2607-EK	Septic tank		
		2607-EM	Septic tank		
		2607-EP	Septic tank		
		2607-EQ	Septic tank		
		2607-ER	Septic tank		
		2607-GF	Septic tank		
		Chemical tile field north of 2703-E	Drain field		
D	200-SS-2	200 West Ash Disposal Basin	Ash pit		
		200 West Burning Pit	Burning pit		
		200-W Powerhouse Ash Pit	Ash pit		
		216-W-LC	Crib		
		2607-W1	Septic Tank		
		2607-W2	Septic Tank		
		UN-200-W-88	Unplanned Release		
D	200-IU-1	Exploratory Shaft HWSA	Staging Area		
		Exploratory Shaft Septic Tank	Septic Tank		
		6607-3	Septic Tank		

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 26 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
D	200-IU-6	216-A-25	Pond		
		216-N-8	Pond		
D	200-IU-2	NSTF* Septic Tank	Septic Tank		
		NSTF* Underground Tank	Storage Tank		
		628-2	Burning pit		
		1607-FSM	Septic Tank		
D	200-IU-5	Batch Plant HWSA	Staging Area		
		2607-FSN	Septic tank		
		622-1	Dumping Area		
		622-R	Septic Tank		
		Old central shop area	Test Treatment or Support Facility		
	200-BP-7	241-B Tank Farm (16 Units)	Single-Shell Tank	Ecology	TSD (S-2-4)
		241-B-151	Diversion Box		RPP
		241-B-152	Diversion Box		RPP
		241-B-153	Diversion Box		RPP
		241-B-252	Diversion Box		RPP
		241-B-301B	Catch Tank		RPP
		241-BR-152	Diversion Box		RPP
		241-BX Tank Farm	Single-Shell Tank		TSD (S-2-4)
		(12 units)	Diversion Box		RPP
		241-BX-153	Catch Tank		RPP
		241-BX-302A	Diversion Box		RPP
		241-BXR-151	Diversion Box		RPP
		241-BXR-152	Diversion Box		RPP
		241-BXR-153	Single-Shell Tank		TSD (S-2-4)
		241-BY Tank Farm			
		(12 units)	Diversion Box		RPP
		241-BYR-152	Diversion Box		RPP
		241-BYR-153	Diversion Box		RPP
		241-BYR-154	Diversion Box		RPP
		242-B-151	Receiving Vault		RPP
		244-BXR	Septic Tank		RPP
		2607-EB	Unplanned Release		RPP
		UN-200-E-43	Unplanned Release		RPP
		UN-200-E-76			

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Prioritized Listing of Operable Units. (sheet 27 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	200-BP-7 (Continued)	UN-200-E-79	Unplanned Release		RPP
		UN-200-E-101	Unplanned Release		RPP
		UN-200-E-105	Unplanned Release		RPP
		UN-200-E-109	Unplanned Release		RPP
*	200-PO-3	216-A-39	Crib	Ecology	RPP
		216-C-8	French Drain		RPP
		241-A Tank Farm (6 units)	Single-Shell Tank		TSD (S-2-4
		241-A-152	Diversion Box		RPP
		241-A-153	Diversion Box		RPP
		241-A-350	Catch Tank		RPP
		241-A-417	Catch Tank		RPP
		241-A-A	Diversion Box		RPP
		241-A-B	Diversion Box		RPP
		241-AR-151	Diversion box		RPP
		241-AX Tank Farm (4 units)	Single-shell tank		TSD (S-2-4
		241-AX-151	Diversion box		RPP
		241-AX-152-CT	Catch tank		RPP
		241-AX-152-DS	Diversion box		RPP
		241-AX-155	Diversion box		RPP
		241-AX-501	Valve pit		RPP
		241-AX-A	Diversion box		RPP
		241-AX-B	Diversion box		RPP
		241-C Tank Farm (16 units)	Single-shell tank		TSD (S-2-4
		241-C-151	Diversion box		RPP
		241-C-152	Diversion box		RPP
		241-C-153	Diversion box		RPP
		241-C-252	Diversion box		RPP
		241-C-301C	Catch tank		RPP
		241-CR-151	Diversion box		RPP
		241-CR-152	Diversion box		RPP
		241-CR-153	Diversion box		RPP
		241-ER-153	Diversion box		RPP
		2607-ED	Septic tank		RPP
		2607-EG	Septic tank		RPP
		2607-EJ	Septic tank		RPP

Note: *This operable unit contains single-shell tanks and is not prioritized with other operable units. Schedules for RFI/CMS work plans and subsequent characterization are being developed as part of the SST system closure/corrective action work plan.

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Prioritized Listing of Operable Units. (sheet 28 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	200-PO-3 (Continued)	UN-200-E-16	Unplanned Release		RPP
		UN-200-E-18	Unplanned Release		RPP
		UN-200-E-27	Unplanned Release		RPP
		UN-200-E-47	Unplanned Release		RPP
		UN-200-E-48	Unplanned Release		RPP
		UN-200-E-68	Unplanned Release		RPP
		UN-200-E-72	Unplanned Release		RPP
		UN-200-E-81	Unplanned Release		RPP
		UN-200-E-82	Unplanned Release		RPP
		UN-200-E-86	Unplanned Release		RPP
		UN-200-E-91	Unplanned Release		RPP
		UN-200-E-118	Unplanned Release		RPP
		UN-200-E-94	Unplanned Release		RPP
		UN-200-E-99	Unplanned Release		RPP
		UN-200-E-100	Unplanned Release		RPP
		UN-200-E-107	Unplanned Release		RPP
*	200-RO-4	241-S Tank Farm (12 units)	Single-shell tank	Ecology	TSD (S-2-4)
		241-S-152	Diversion box		RPP
		241-S-302B	Catch tank		RPP
		241-S-A	Valve pit		RPP
		241-S-B	Valve pit		RPP
		241-S-C	Valve pit		RPP
		241-S-D	Valve pit		RPP
		241-SX Tank Farm (15 units)	Single-shell tank		TSD (S-2-4)
		241-SX-151	Diversion box		RPP
		241-SX-152	Diversion box		RPP
		UN-200-W-10	Unplanned Release		RPP
		UN-200-W-80	Unplanned Release		RPP
		UN-200-W-81	Unplanned Release		RPP
*	200-TP-5	241-TX Tank Farm (18 units)	Single-shell tank	Ecology	TSD (S-2-4)
		241-TX-153	Diversion box		RPP
		241-TX-302A	Catch tank		RPP
		241-TXR-152	Diversion box		RPP
		241-TXR-153	Diversion box		RPP
		241-TY Tank Farm (6 units)	Single-shell tank		TSD (S-2-4)

Note: *This operable unit contains single-shell tanks and is not prioritized with other operable units. Schedules for RFI/CMS work plans and subsequent characterization are being developed as part of the SST system closure/corrective action work plan.

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Prioritized Listing of Operable Units. (sheet 29 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	200-TP-5 (Continued)	241-TY-153	Diversion box		RPP
		241-TY-302A	Catch tank		RPP
		241-TY-302B	Catch tank		RPP
		242-T-151	Diversion box		RPP
		2607-WT	Septic tank		RPP
		2607-WTX	Septic tank		RPP
		UN-200-W-17	Unplanned Release		RPP
		UN-200-W-76	Unplanned Release		RPP
		UN-200-W-100	Unplanned Release		RPP
*	200-TP-6	241-T Tank Farm (16 units)	Single-Shell tank	Ecology	TSD (S-2-4)
		241-T-151	Diversion box		RPP
		241-T-152	Diversion box		RPP
		241-T-153	Diversion box		RPP
		241-T-252	Diversion box		RPP
		241-T-301	Catch tank		RPP
		241-T-302	Catch tank		RPP
		241-TR-152	Diversion box		RPP
		241-TR-153	Diversion box		RPP
		UN-200-W-62	Unplanned Release		RPP
		UN-200-W-64	Unplanned Release		RPP
		UN-200-W-97	Unplanned Release		RPP
*	200-UP-3	241-U Tank Farm (16 units)	Single-shell tank	Ecology	TSD (S-2-4)
		241-U-153	Diversion box		RPP
		241-U-252	Diversion box		RPP
		241-U-301	Catch tank		RPP
		241-U-A	Diversion box		RPP
		241-U-B	Diversion box		RPP
		241-U-C	Diversion box		RPP
		241-U-D	Diversion box		RPP
		241-UR-151	Diversion box		RPP
		241-UR-152	Diversion box		RPP
		241-UR-153	Diversion box		RPP
		241-UR-154	Diversion box		RPP
		244-UR	Receiving vault		RPP
		2607-WUT	Septic tank		RPP
		UN-200-W-71	Unplanned Release		RPP

Note: *This operable unit contains single-shell tanks and is not prioritized with other operable units. Schedules for RFI/CMS work plans and subsequent characterization are being developed as part of the SST system closure/corrective action work plan.

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APPENDIX D

WORK SCHEDULE

- Listing of Currently Identified Interim and Major Milestones
- Time-Scaled Logic Networks

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 1 of 8)

Number	Milestone	Due Date
M-01-00	**Complete 14 grout campaigns of double-shell tank waste by December 1996 and maintain currency with feed thereafter.**	**Dec. 1996**
M-01-01	Complete a total of 3 grout campaigns of double-shell tank wastes (includes one campaign of phosphate-sulfate waste) **(Replaced by M-01-01A and M-01-01B.)**	Sept. 1991
M-01-01A	Complete and verify 2 campaigns of double-shell tank waste (this includes one campaign of phosphate-sulfate waste)	Sept. 1993
M-01-01B	Complete 1 additional campaign of double-shell tank waste (this makes a total of three campaigns including 1 phosphate-sulfate waste campaign)	Dec. 1993
M-01-02	Complete 3 campaigns of double-shell tank waste in CY 1994	Dec. 1994
M-01-02A	Initiate construction of vaults 106-109	Nov. 1992
M-01-03	Complete 4 campaigns of double-shell tank waste in CY 1995	Dec. 1995
M-01-03A	Initiate construction of vaults 110-113	Nov. 1993
M-01-04	Complete 4 campaigns of double-shell tank waste in CY 1996	Dec. 1996
M-01-04A	Initiate construction of vault 114	Nov. 1994
M-01-05	Commitments for additional grout campaigns after December 1996 will be incorporated as interim milestones	Biennially beginning Sept. 1996

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 2 of 8)

Number	Milestone	Due Date
M-02-00	Initiate pretreatment of double-shell tank waste. Double-shell tank waste pretreatment is required prior to disposal of high-activity tank wastes. Pretreatment supports the removal, treatment, and final disposal of wastes subject to land disposal restrictions which are stored in double-shell tanks. Removal of the wastes from double-shell tanks and disposal in grout or glass will allow double-shell tank space to be made available for single-shell tank waste	TBD
M-02-01	Submit to Ecology and EPA the double-shell tank waste disposal program redefinition study	Dec. 1991
M-02-02	Incorporate additional interim milestones to support pretreatment of double-shell tank waste	Jan. 1992
M-03-00	Initiate Hanford Waste Vitrification Plant operations. Waste which is pretreated in B Plant will be designated for disposal in either glass or grout. Pending treatment and final disposal, the wastes must be stored in double-shell tanks. Completion of the vitrification plant will enable the pretreated waste to be removed from double-shell tanks, thus allowing double-shell tank space to be made available for single-shell tank waste. The HWVP also supports the removal, treatment, and final disposal of wastes subject to land disposal restrictions which are stored in double-shell tanks. Initiation of operations is defined to be hot startup	Dec. 1999

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 3 of 8)

Number	Milestone	Due Date
M-03-01	Initiate HWVP construction "Initiation of HWVP construction is defined as start of HWVP site preparation (includes site grading, roads, generic site utilities such as sewer, domestic water, construction powers, security fencing and construction support buildings, initiation of procurment for long-lead HWVP construction materials and by December 1991, initiate design of HWVP canister storage building)"	April 1992
M-03-02	Complete HWVP construction	June 1998
M-04-00	**Provide annual reports of tank waste treatability studies.** Wastes stored in double-shell and single-shell tanks, as well as newly generated wastes destined to be stored in the double-shell tanks, will be studied to determine the most appropriate treatment/disposal method. Studies to determine the long-term feasibility of grout or glass for disposal of these wastes are included in the scope of this milestone	**Annually Beginning Sept. 1990**
M-04-01	Provide letter to Ecology describing work scope to be included in Sept. 1990 report	Dec. 1989
M-05-00	**Complete single-shell tank interim stabilization.** Complete the single-shell tank interim stabilization activities (removal of pumpable liquid from those 51 single-shell tanks not yet stabilized) for all single-shell tanks except 241-C-105 and 241-C-106. All 149 tanks, including 241-C-105 and 241-C-106 will be interim stabilized and interim isolated by September 1996	**Sept. 1995**

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 4 of 8)

Number	Milestone	Due Date
M-05-01	Interim stabilize 3 single-shell tanks	Sept. 1989
M-05-02	Interim stabilize an additional 4 single-shell tanks	Sept. 1990
M-05-03	Interim stabilize an additional 4 single-shell tanks	Sept. 1991
M-05-04	Interim stabilize an additional 9 single-shell tanks	Sept. 1992
M-05-05	Interim stabilize an additional 11 single-shell tanks	Sept. 1993
M-05-06	Interim stabilize an additional 8 single-shell tanks	Sept. 1994
M-05-07	Interim stabilize an additional 10 single-shell tanks (stabilization complete except for 241-C-105 and 241-C-106)	Sept. 1995
M-05-08	Interim stabilize Tanks 241-C-105 and 241-C-106	Sept. 1996
M-05-09	Complete interim stabilization and interim isolation of all 149 single-shell tanks	Sept. 1996
M-06-00	Develop single-shell tank waste retrieval technology and complete scale-model testing. Various waste retrieval technologies will be evaluated for retrieving each of the several types of single-shell tank wastes. Emphasis will be placed on optimizing waste removal while minimizing personnel exposure. Promising technologies will be evaluated for each waste type and one or more will be selected for testing using simulated waste in a scale model (minimum 1:12 scale) tank	June 1994

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 5 of 8)

Number	Milestone	Due Date
M-06-01	Identify waste retrieval technologies to be tested in scale-model tank	Oct. 1990
M-06-02	Initiate waste retrieval testing in scale-model tank	Oct. 1992
M-07-00	**Initiate full-scale demonstration of waste retrieval technology.** A full-scale waste retrieval demonstration at a pre-selected single-shell tank will follow scale model testing of waste retrieval technologies (Milestone M-06-00). This demonstration will be complete when it succeeds in removing no less than 95 percent of the radioactive and chemical waste inventory from the single-shell tank. If any waste remains in the tank or the surrounding soil, final tank closure will proceed under an approved closure plan in Milestone M-08 or M-09. Demonstration initiation is defined as startup of the waste retrieval equipment in the selected single-shell tank	Oct. 1997
M-07-01	Submit tank selection criteria, retrieval options and recommended tank selection to Ecology for concurrence	Oct. 1993
M-07-02	Ecology concurrence/non-concurrence of tank selection criteria, retrieval options, and tank selection	Dec. 1993
M-07-03	Complete final design for installation of piping and other required waste removal equipment	Dec. 1994
M-07-04	Submit completion date and completion criteria for full-scale demonstration project to Ecology for concurrence	Oct. 1997
M-07-05	Ecology concurrence/non-concurrence of completion date/criteria	Dec. 1997

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 6 of 8)

Number	Milestone	Due Date
M-08-00	Initiate full-scale tank farm closure demonstration project. The full-scale tank farm demonstration project will include waste retrieval and the installation of a final cover. Decisions as to the appropriate disposal of wastes, tanks, contaminated piping, and soils will follow detailed characterization and regulatory agency approval as part of the closure process. For purposes of this milestone, initiation is defined as full-scale waste retrieval. The full-scale demonstration will serve to verify the various technologies being developed for tank farm closures	June 2004
M-08-01	Submit tank farm selection criteria, closure method(s), tank farm selection rationale, and recommended tank farm selection to Ecology for approval	Jan. 1999
M-08-02	Complete final design for the installation of required piping and other required waste removal equipment	Jan. 2001
M-08-03	Submit tank farm closure plan for selected tank farm to Ecology for approval	Dec. 2003
M-09-00	Complete closure of all 149 single-shell tanks. Closure and removal of required waste from the 149 single-shell tanks will be effected in accordance with the approved closure plan(s). As stated in the Hanford Defense Waste-Environmental Impact Statement Record of Decision, a supplemental EIS will be prepared prior to making any final decisions regarding disposal of single-shell tank waste. The final closure plan(s) will address the recommendations of the supplemental EIS	June 2018

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 7 of 8)

Number	Milestone	Due Date
M-09-01	Complete preparation of supplemental EIS and issue draft for public review	June 2002
M-09-02	Submit closure plan to Ecology for approval	Dec. 2003
M-10-00	Complete analyses of at least two complete core samples from each single-shell tank Obtain and analyze a minimum of two core samples from each single-shell tank. Samples will be collected and analyzed to determine the characteristics of significant waste strata to support timely development of tank waste retrieval technology and to assist in preparation of single-shell tank closure plans and the supplemental EIS. Additional sampling may be determined to be necessary to ensure representative samples are obtained from each tank. Samples will be collected and analyzed in accordance with a single-shell tank waste analysis plan approved by Ecology. Data from this initial characterization may be adequate to identify those tanks whose waste will be retrieved. Additional sampling and analysis will be necessary to justify any decision to leave tank waste in place	Sept. 1998
M-10-01	Submit draft waste sampling and analysis plan to National Academy of Sciences, Ecology, and EPA	March 1989
M-10-02	Submit waste sampling and analysis plan to Ecology for approval	May 1989
M-10-03	Obtain 15 core samples from 2 tanks (reference sampling tanks)	Dec. 1989
M-10-04	Obtain 4 core samples from 2 single-shell tanks (SSTs)	Sept. 1991

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 8 of 8)

Number	Milestone	Due Date
M-10-05	Issue "Integrated Plan - Sampling and Analysis of Hanford Site Wastes Measuring Greater Than 10 mREM per Hour"	March 1992
M-10-06	Obtain 20 core samples from single-shell tanks (SSTs)	Sept. 1992
M-10-07	Obtain 24 core samples from 12 tanks	Sept. 1993
M-10-08	Obtain 44 core samples from 22 tanks	Sept. 1994
M-10-09	Obtain 48 core samples from 24 tanks	Sept. 1995
M-10-10	Obtain 48 core samples from 24 tanks	Sept. 1996
M-10-11	Obtain 48 core samples from 24 tanks	Sept. 1997
M-10-12	Obtain 38 core samples from 19 tanks	Sept. 1998
M-10-13	Restore rotary mode sampling capability at the Hanford Site	Sept. 1992
M-11-00	**Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.** The expanded laboratory hot cells will provide analytical capabilities for waste analyses from single-shell tanks, double-shell tanks, and B Plant pretreatment processing. The hot cells will provide at least double the sample throughput capacity from that which is currently available at the 222-S Laboratory	June 1994
M-11-01	Complete conceptual design for hot cell expansion	June 1989
M-11-02	Complete definitive design for hot cell expansion	March 1992

Table D-2. Major and Interim Milestones--Cleanup of Past-Practice Units. (sheet 1 of 6)

Number	Milestone	Due Date
M-12-00	Submit RI/FS or RFI/CMS work plans for 15 operable units.	June 1992
M-12-01	Submit 1100-EM-1 Operable Unit Work Plan (groundwater and source operable unit)	Jan. 1989
M-12-02	Submit 200-BP-1 Operable Unit Work Plan (groundwater and source operable unit)	Feb. 1989
M-12-03	Submit 300-FF-1 Operable Unit Work Plan (source operable unit)	March 1989
M-12-04	Submit 300-FF-5 Operable Unit Work Plan (groundwater operable unit)	Sept. 1989
M-12-05[1]	Submit 100-HR-1 Operable Unit Work Plan (source operable unit)	June 1989
M-12-05A	Submit rescoped RFI/CMS work plan for 100-HR-1 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Sept. 1991
M-12-06[1]	Submit 100-HR-3 Operable Unit Work Plan (groundwater operable unit)	June 1989
M-12-06A	Submit rescoped RFI/CMS work plan for 100-HR-3 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Sept. 1991
M-12-07[1]	Submit 100-DR-1 Operable Unit Work Plan (source operable unit)	Oct. 1989
M-12-07A	Submit rescoped RFI/CMS work plan for 100-DR-1 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Sept. 1991
M-12-08	Submit 100-BC-1 Operable Unit Work Plan (source operable unit)	June 1990

[1]Work plan will be prepared in accordance with CERCLA guidance but will reflect RCRA terminology.

Table D-2. Major and Interim Milestones--Cleanup of Past-Practice Units. (sheet 2 of 6)

Number	Milestone	Due Date
M-12-08A	Submit rescoped RI/FS work plan for 100-BC-1 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Sept. 1991
M-12-09	Submit 100-BC-5 Operable Unit Work Plan (groundwater operable unit)	June 1990
M-12-09A	Submit rescoped RI/FS work plan for 100-BC-5 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Sept. 1991
M-12-10	Submit 100-KR-1 Operable Unit Work Plan (source operable unit)	Aug. 1990
M-12-10A	Submit rescoped RI/FS work plan for 100-KR-1 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Oct. 1991
M-12-11	Submit 100-KR-4 Operable Unit Work Plan (groundwater operable unit)	Aug. 1990
M-12-11A	Submit rescoped RI/FS work plan for 100-KR-4 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Oct. 1991
M-12-12	Submit 100-NR-1 Operable Unit Work Plan (source and groundwater operable unit)	Dec. 1990
M-12-12A	Submit rescoped RFI/CMS work plan for 100-NR-1 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Dec. 1991
M-12-13	Submit 100-FR-1 Operable Unit Work Plan (source and groundwater operable unit)	April 1991
M-12-13A	Submit rescoped RI/FS work plan for 100-FR-1 and 100-FR-3 operable units, in accordance with final "Hanford Past-Practice Strategy Document"	Nov. 1991

Table D-2. Major and Interim Milestones--Cleanup of Past-Practice Units.
(sheet 3 of 6)

Number	Milestone	Due Date
M-12-14	Submit 100-NR-3 Operable Unit Work Plan (source and groundwater operable unit)	Dec. 1990
M-12-14A	Submit rescoped RFI/CMS work plan for 100-NR-2 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Dec. 1991
M-12-15	Submit 200-UP-2 operable unit work plan (source and groundwater operable unit) or an agreed upon alternate work plan based on results of the U-Plant Aggregate Area Management Study	June 1992
M-12-16	Submit 100-BC-2 Operable Unit Work Plan (source and groundwater operable unit)	~~Aug. 1991~~ DELETED
M-12-17	Submit 200-BP-5 Operable Unit Work Plan (source and groundwater operable unit)	~~Oct. 1991~~ DELETED
M-12-18	Submit 100-DR-2 Operable Unit Work Plan (source operable unit)	~~Dec. 1991~~ DELETED
M-12-19	Submit 200-ZP-1 Operable Unit Work Plan (source and groundwater operable unit)	~~Feb. 1992~~ DELETED
M-12-20	Submit 100-KR-2 Operable Unit Work Plan (source and groundwater operable unit)	~~April 1992~~ DELETED
M-13-00	**Submit six RI/FS or RFI/CMS work plans per year.**	**Annually Beginning CY 1993**
M-14-00	**Complete construction and initiate operations of a low-level mixed waste laboratory.** The low-level mixed waste laboratory will provide analytical capabilities to analyze hazardous waste samples, those containing low levels of radioactivity as well as those that are strictly hazardous. The new laboratory will be sized in accordance with the design specifications of the project Conceptual Design Report	**Jan. 1992**
M-14-01	Complete definitive design for a low-level mixed waste laboratory	Nov. 1990

Table D-2. Major and Interim Milestones--Cleanup of Past-Practice Units.
(sheet 4 of 6)

Number	Milestone	Due Date
M-15-00	Complete the RI/FS (or RFI/CMS) process for all operable units. All operable units (including groundwater operable units) will have been investigated through the RI/FS (or RFI/CMS) process, and the public comment period will be completed. Specific remedial actions for each operable unit will be selected	Sept. 2005
M-15-01A	Submit draft 1100-EM-1 Feasibility Study Phase 1 and 2 report to EPA and Ecology for review	Dec. 1990
M-15-01B/C	Submit final 1100-EM-1 Remedial Investigation/ Feasibility Study report to EPA and Ecology for review	Dec. 1992
M-15-02A	Submit draft 200-BP-1 Feasibility Study Phase 1 and 2 report to EPA and Ecology for review	May 1993
M-15-02B	Submit draft 200-BP-1 Remedial Investigation Phase 2 report to EPA and Ecology for review	April 1994
M-15-02C	Submit draft 200-BP-1 Feasibility Study Phase 3 report and proposed plan to EPA and Ecology for review	March 1995
M-15-03A	Submit draft 300-FF-1 Feasibility Study Phase 1 and 2 report to EPA and Ecology for review	Sept. 15, 1992
M-15-03B	Submit draft 300-FF-1 Remedial Investigation Phase 2 report to EPA and Ecology for review	Dec. 15, 1993
M-15-03C	Submit draft 300-FF-1 Feasibility Study Phase 3 report to EPA and Ecology for review	Aug. 15, 1994
M-15-04A	Submit draft 300-FF-5 Feasibility Study Phase 1 and 2 report to EPA and Ecology for review	July 15, 1993

Table D-2. Major and Interim Milestones--Cleanup of Past-Practice Units.
(sheet 5 of 6)

Number	Milestone	Due Date
M-15-04B	Submit draft 300-FF-5 Remedial Investigation Phase 2 report to EPA and Ecology for review	Aug. 15, 1994
M-15-04C	Submit draft 300-FF-5 Feasibility Study Phase 3 report to EPA and Ecology for review	June 15, 1995
M-16-00	Complete the remedial actions for all operable units Remedial actions will be completed for each operable unit in accordance with the schedules developed as part of the remedial design (RD)/remedial action (RA) or corrective measure implementation (CMI) work plan	Sept. 2018

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 1 of 33)

Number	Milestone	Due Date
M-17-00A	**Complete liquid effluent treatment facilities/ upgrades for all Phase I streams.** Hanford currently has 19 Phase I liquid effluent streams being discharged to cribs, ponds, or ditches. Phase I streams are defined in the "Annual Status Report of the Plan and Schedule to Discontinue Disposal of Contaminated Liquids into the Soil Column at the Hanford Site", September 1988. Some of the cribs, ponds, or ditches are RCRA waste disposal units. These, along with others, are located in areas requiring inactive site investigations/remedial actions. Liquid effluent streams are classified as Phase I streams based upon radionuclide/chemical content, regulatory requirements relative to the waste disposal unit, chemical spill potential, and waste disposal unit life expectancy. Each of the Phase I effluent streams shall be either treated or eliminated, as defined in the above referenced report Interim milestones for Phase I Streams include the development and implementation of an impact assessment methodology, sampling and analysis plans, treatment system design and construction commitments, interim flow restrictions and dates for ceasing discharge Specific interim/target milestone dates for each stream and any associated treatment or disposal facilities are included in the Appendix D work schedules	**June 1995**
M-17-00B	**Complete implementation of "Best Available Technology/All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment" (BAT/AKART) for all Phase II liquid effluent streams at the Hanford Site.**	**Oct. 1997**

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 2 of 33)

Number	Milestone	Due Date
M-17-00B (Continued)	Hanford's 14 Phase II liquid effluent streams are discharged to cribs, ponds, ditches, or routed to storage facilities. Phase II streams are defined in the "Annual Status Report of the Plan and Schedule to Discontinue Disposal of Contaminated Liquids into the Soil Column at the Hanford Site", September 1988. Some of the cribs, ponds, or ditches are RCRA waste disposal units. These, along with others, are located in areas requiring inactive site investigations/ remedial actions All Phase II effluent streams, except those which have been eliminated (e.g., the 209-E Reflector Water and 163-N Demineralizer Liquid Effluent), are managed through a sequence of interim milestones. Interim milestones for Phase II Streams include the development and implementation of an impact assessment methodology, sampling and analysis plans, treatment system design and construction commitments, interim flow restrictions and dates for ceasing discharge Specific interim/target milestone dates for each stream and any associated treatment or disposal facilities are included in the Appendix D work schedules The October 1997 completion date for Milestone M-17-00B shall remain unchanged unless all parties agree that a change is necessary in accordance with Article XL of the Tri-Party Agreement. The parties recognize that the milestone may be revised to accelerate or delay implementation of BAT/AKART based on the results of the BAT/AKART evaluations for each of the nine Phase II liquid effluent streams included in Milestone M-17-00B. Negotiations on the schedule for implementation of BAT/AKART at each of the Phase II liquid effluent streams shall be finalized by December 1992. Such negotiations shall be based on the BAT/AKART evaluations, the complexity of the required treatment and any other technology necessary to meet effluent guidelines and permitting requirements set forth by Ecology and EPA. DOE will assure Ecology and EPA of meaningful and fully funded	

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 3 of 33)

Number	Milestone	Due Date
M-17-00B (Continued)	participation in the BAT/AKART determination for each of the following Phase II liquid effluents: B-Plant Cooling Water AY/AZ Tank Farm Steam Condensate 242-A Evaporator Cooling Water 242-A Evaporator Steam Condensate 241-A Tank Farm Cooling Water 244-AR Vault Cooling Water 183-D Filter Backwash 284-E Power Plant Wastewater 400 Area Secondary Cooling Water	
M-17-01	Complete B Pond bypass system installation	Oct. 1990
M-17-02	Complete PUREX ammonia scrubber distillate treatment system	~~Jan. 1995~~ DELETED
M-17-03	Complete PUREX demineralizer regeneration neutralization system upgrades	Sept. 1989
M-17-04	Cease discharge of the B Plant Chemical Sewer to the 216-B-3 Pond system Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-04A	Submit the Sampling and Analysis Plan for the B Plant Chemical Sewer to the EPA and Ecology as a primary document	Jan. 1992
M-17-04B	Discontinue the discharge of the B Plant Chemical Sewer to the 216-B-63 Ditch. Reroute this effluent to the 216-B-3 Pond system via the B Plant Cooling Water	Feb. 1992
M-17-04C	Complete construction of 'B Plant Aqueous Make-up Unit (AMU) Area Upgrades' (Project W-004). No chemical inventory will be stored in B Plant AMU tanks until project completion. The chemical addition lines to these tanks will be blanked off, effective September 1991, and will remain so until initiation of acceptance testing	July 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 4 of 33)

Number	Milestone	Due Date
M-17-04D	Complete construction of 'B Plant Environmental Compliance Upgrades' (Project W-010H)	July 1992
M-17-05	Select 300 Area Process Trench effluent treatment option and establish schedule for implementing treatment and ceasing liquid discharges	March 1990
M-17-06	Cease all discharges to 300 Area Process Trenches	~~Dec. 1991~~ DELETED
M-17-06A	Limit discharges to the 300 Area Process Trenches to less than or equal to 400 gallons per minute, averaged over the calendar month	Dec. 1991
M-17-06B	Submit the 300 Area Process Sewer Effluent characterization report based on the October 1991 sampling, to EPA and Ecology	March 1992
M-17-06C	Provide a shut-down plan to EPA and Ecology for the 300 Area Process Trenches. This shut-down plan shall allow for the safe, expeditious, and orderly shut-down of effluents to the 300 Area Process Trenches. This plan shall identify impacts of the shut-down on Agreement activities	April 1992
M-17-06D	Submit to EPA and Ecology the final report detailing the results of the 300 Area Process Trench Expedited Response Action (316-5 Trenches)	July 1992
M-17-06E	Submit to EPA and Ecology an updated Assessment of Potential Environmental Impacts from Continued Discharge to the 300 Area Process Trenches at Hanford, to be based on all available information. This information shall include but not be limited to the characterization of the effluent and the results of the 300 Area Process Trench Expedited Response Action	July 1992
M-17-07	Complete secondary waste treatment system	~~June 1995~~ DELETED

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 5 of 33)

Number	Milestone	Due Date
M-17-08	Initiate full scale hot operations for '200 Area Treated Effluent Disposal Facility' (Project W-049H), with permitted disposal of effluent to either the soil column or surface water	June 1995
M-17-08A	Submit '200 Area Treated Effluent Disposal Facility' (Project W-049H) design-construction schedule to the EPA and Ecology as a primary document	Feb. 1992
M-17-08B	Implement BAT/AKART at the generating facilities which will discharge to '200 Area Treated Effluent Disposal Facility' (Project W-049H). Those effluents included in the project scope include: Plutonium Finishing Plant Wastewater 242-S Evaporator Steam Condensate 2101-M Laboratory Wastewater 284-W Powerplant Wastewater T Plant Laboratory Wastewater T Plant Wastewater 222-S Laboratory Wastewater PUREX Chemical Sewer - PUREX Steam Condensate - PUREX Cooling Water UO3/U Plant Wastewater UO3 Plant Process Condensate B Plant Steam Condensate B Plant Process Condensate B Plant Chemical Sewer 200E Laundry (New Stream)	June 1995
M-17-09	Initiate full scale hot operations of '300 Area Treated Effluent Disposal Facility' (Project L-045H), with permitted disposal of treated effluent to surface water	Dec. 1994
M-17-09A	Complete definitive design of '300 Area Treated Effluent Disposal Facility' (Project L-045H) and submit design documentation to the EPA and Ecology as a primary document	July 1993

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 6 of 33)

Number	Milestone	Due Date
M-17-10	Cease all liquid discharges to hazardous waste land disposal units unless such units have been clean closed in accordance with RCRA	June 1995
M-17-11	Complete actions specified in Appendix D, Table D-5.	~~As specified in Table D-5~~ DELETED (actions reassigned)
M-17-12	Complete actions specified in Appendix D, Table D-4.	~~As specified in Table D-4~~ DELETED (actions reassigned)
M-17-13	Submit methodology for assessing impact of liquid discharge on groundwater at disposal sites to EPA and Ecology as a primary document	Oct. 1991
M-17-13A	Submit a schedule, as a primary document, for implementation of the impact assessment methodology, including but not limited to sites listed below. An assessment will not be required if all disposal to the receiving site has been ceased 1325-N Liquid Waste Disposal Facility 216-Z-20 Crib 216-U-14 Ditch 216-U-17 Crib 216-B-3 Pond system 216-S-26 Crib 216-T-4-2 Ditch 216-T-1 Ditch 284W Powerhouse Pond 2101-M Pond 216-W-LWC Crib D Pond 216-B-63 Ditch 400 Area Pond	30 days after approval notification by EPA and Ecology
M-17-14	Initiate full scale hot operations of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H), with permitted discharge of treated effluent to the soil column	Oct. 1994

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 7 of 33)

Number	Milestone	Due Date
M-17-14A	Submit the Architect/Engineering firm design-construction schedule for '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) to the EPA and Ecology	Feb. 1992
M-17-14B	Initiate pilot plant testing for '242-A Evaporator/ PUREX Plant Condensate Treatment Facility' (Project C-018H) after the effective date of the RD & D Permit. This testing will incorporate the use of actual evaporator process condensate as it is available	~~June 1992~~ DELETED
M-17-14C	Submit initial submittal of the Federal Delisting petition for treated effluent from '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) in accordance with 40 CFR 260.22 to the EPA	Oct. 1992
M-17-14D	Initiate Operational Test Procedures for the '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) using simulants and/or actual LERF-stored wastes, with recycle to the LERF basins	June 1994
M-17-15	Cease discharge to the 1325-N Liquid Waste Disposal Facility (LWDF) system	June 1995
M-17-15A	Limit discharges to the LWDF to less than or equal to 2 gallons per minute, averaged over the calendar month. The total volume of wastewater to be discharged to the LWDF from June 1992 to June 1995 shall not exceed 1.8 million gallons. Discharge flow rate shall be determined by measuring the sumps before and after pumping or through monitoring at the discharge to the 1325-N LWDF	Sept. 1991
M-17-15B	Submit the N Reactor effluent BAT/AKART evaluation to the EPA and Ecology	Jan. 1992
M-17-15C	Submit a plan to cease discharge of all liquid effluents to the 1325-N LWDF to EPA and Ecology. This plan shall be based on the implementation of BAT/AKART	Jan. 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 8 of 33)

Number	Milestone	Due Date
M-17-15D	Submit to EPA and Ecology an NPDES permit modification request for the N Reactor effluent	June 1992
M-17-16	Cease all discharges to the 216-Z-20 Crib Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-16A	Limit discharge of the Plutonium Finishing Plant Wastewater to the 216-Z-20 Crib to less than or equal to 100 gallons per minute, averaged over the calendar month	Sept. 1991
M-17-16B	Install a flume for the Plutonium Finishing Plant Wastewater for the purposes of flow rate measurement. Thereafter the flow rate shall be measured by the flume and automatically recorded on a strip chart recorder	Dec. 1991
M-17-16C	Complete definitive design of 'Plutonium Finishing Plant Liquid Low-Level Waste System Modification' (Project B-680H) and submit design documentation to the EPA and Ecology as a primary document	Dec. 1992
M-17-16D	Implement closed loop cooling for Buildings 291-Z, 234-5Z, and 236-Z, as provided by '291-Z Closed Loop Cooling' (Project C-040) and 'Plutonium Finishing Plant Liquid Low-Level Waste System Modification' (Project B-680H). Reduce the discharge to the 216-Z-20 Crib to less than or equal to 75 gallons per minute, averaged over the calendar month	Jan. 1994
M-17-16E	Complete 'Plutonium Finishing Plant Liquid Low-Level Waste System Modification' (Project B-680H)	May 1994

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 9 of 33)

Number	Milestone	Due Date
M-17-17	Cease discharge of the UO3/U Plant Wastewater to the 216-U-14 Ditch Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See Milestone M-17-08	June 1995
M-17-17A	Except as specified below, limit discharge of the wastewater to the ditch to less than or equal to 450 gallons per minute, averaged over the calendar month. During the Stabilization run, limit the discharge of wastewater to the ditch to less than or equal to 750 gallons per minute, averaged over the calendar month. Measurement of the discharge flow rate shall be by an instantaneous flow rate recorder system with data recording by a strip chart Note: The Stabilization Run of the UO3/U Plant refers to the operation of the Plant in the Calcination Mode as described in the UO3/U Plant Wastewater Stream Specific Report. The Stabilization Run will occur over a short period of time and is necessary to convert Plant inventory to a more stable form for storage	Sept. 1991
M-17-17B	Cease discharge of the 216-U-14 Ditch surface contamination control water. Limit the 216-U-14 Ditch surface contamination control water point source discharge at less than or equal to 300 gallons per minute, as estimated through engineering calculations, until the completion of the Stabilization Run. At the completion of the Stabilization Run, cease the existing contamination control water point source discharge and initiate construction of the engineered surface contamination control solution. The use of clean water during construction is allowed for dust control. This dust control water shall not exceed 300 gpm and must be discontinued by February 1992	Feb. 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 10 of 33)

Number	Milestone	Due Date
M-17-17C	Complete a study which evaluates the need for and feasibility of rerouting the UO3/U Plant Wastewater to an alternative site and submit it to the EPA and Ecology	May 1992
M-17-17D	Limit UO3/U Plant Wastewater effluent flow to less than or equal to 250 gallons per minute, averaged over the calendar month	Dec. 1992
M-17-18	Cease discharge of the 242-S Evaporator Steam Condensate to the 216-U-14 Ditch Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-18A	Limit the discharge of steam condensate to the ditch to less than or equal to 50 gallons per minute. This flow rate is based on the maximum design flow	Sept. 1991
M-17-18B	Replace the air sample pump at the 242-S Evaporator and eliminate the seal water contribution to the 242-S Evaporator Steam Condensate	Sept. 1992
M-17-19	Cease discharge to the 216-U-17 Crib Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-19A	Limit the discharge of the UO3 Plant Process Condensate to the 216-U-17 Crib to less than or equal to 10 gallons per minute, averaged over the calendar month. The volume of wastewater to be discharged to the 216-U-17 Crib from June 1992 to June 1995 shall not exceed 2 million gallons. Operate and test the efficiency of the Fibermist Eliminator throughout the duration of the UO3/U Plant Stabilization Run.	Sept. 1991

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 11 of 33)

Number	Milestone	Due Date
M-17-19A (Continued)	Discharge of the UO3 Process Condensate shall be further limited after the Stabilization Run to less than or equal to 2 gallons per minute, averaged over the calendar month. Discharge flow rate shall be calculated based on a batch counter Note: The Stabilization Run of the UO3/U Plant refers to the operation of the Plant in the Calcination Mode as described in the UO3 Plant Process Condensate Stream Specific Report. The Stabilization Run will occur over a short period of time and is necessary to convert Plant inventory to a more stable form for storage	
M-17-20	Implement BAT/AKART for the PUREX Plant Process Condensate. No soil column disposal of this effluent will occur until BAT/AKART is implemented as part of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H). See Milestone M-17-14	June 1995
M-17-20A	Cease all discharge to the 216-A-45 Crib	Sept. 1991
M-17-21	Implement BAT/AKART for the PUREX Plant Ammonia Scrubber Condensate. No soil column disposal of this effluent will occur until BAT/AKART is implemented as part of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H). See Milestone M-17-14	June 1995
M-17-21A	Cease all discharge to the 216-A-36B Crib	Sept. 1991
M-17-22	Cease discharge of the PUREX Plant Steam Condensate to the 216-B-3 Pond system Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 12 of 33)

Number	Milestone	Due Date
M-17-22A	Discontinue discharge of the PUREX Plant Steam Condensate to the 216-A-30 and 216-A-37-2 Cribs. Reroute effluent flow to the 216-B-3 Pond system via the PUREX Chemical Sewer. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-A-30 and 216-A-37-2 Cribs may resume if supported by the environmental impact assessment agreed to by EPA and Ecology. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	June 1992
M-17-23	Cease discharge of the PUREX Plant Cooling Water to the 216-B-3 Pond system Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-23A	Reroute the PUREX Plant Cooling Water effluent to the 216-B-3 Pond system via the PUREX Chemical Sewer. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	June 1992
M-17-24	Cease discharge of the PUREX Plant Chemical Sewer to the 216-B-3 Pond system Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 13 of 33)

Number	Milestone	Due Date
M-17-24A	Complete PUREX reconfiguration and source control to minimize volume and reroute the remaining PUREX Cooling Water and Steam Condensate to the 216-B-3 Pond system via the PUREX Chemical Sewer. Limit the discharge of the PUREX Plant Chemical Sewer to the 216-B-3 Pond system to less than or equal to 600 gallons per minute, averaged over the calendar month. Measurement of the discharge flow volume shall be by a combination of magnetic and pneumatic flowmeters with data recording by a strip chart recorder. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	June 1992
M-17-25	Cease all discharge to the 216-B-55 Crib. There shall be no further soil column discharge of B Plant Steam Condensate until BAT/AKART is implemented; until that time, the effluent will be routed to double-shell tanks. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-B-55 Crib may resume if supported by the environmental assessment agreed to by EPA and Ecology Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	Sept. 1991
M-17-26	Cease discharge to the 216-B-62 Crib. There shall be no further soil column discharge of B Plant Process Condensate until BAT/AKART is implemented; until that time, the effluent will be routed to double-shell tanks. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-B-62 Crib may resume if supported by the environmental impact assessment agreed to by EPA and Ecology Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	Sept. 1991

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 14 of 33)

Number	Milestone	Due Date
M-17-27	Submit the Sampling and Analysis Plan for the B Plant Cooling Water to the EPA and Ecology as a primary document	April 1992
M-17-28	Cease discharge to the 216-A-08 Crib. There shall be no further soil column discharge of this effluent until BAT/AKART is implemented; in the interim, the effluent will be routed to double-shell tanks. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-A-08 Crib may resume if supported by the environmental impact assessment agreed to by EPA and Ecology	Sept. 1991
M-17-29	Implement BAT/AKART for the 242-A Evaporator Process Condensate	October 1994
M-17-29A	Cease all discharges to the 216-A-37-1 Crib. No soil column disposal of this effluent shall occur until BAT/AKART is implemented as part of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H). See Milestone M-17-14. Upon restart of the 242-A Evaporator in Fiscal Year 1992, process condensate will be routed to the LERF basins for storage and eventual processing via the '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H)	Sept. 1991
M-17-30	Submit the Sampling and Analysis Plan for the 242-A Evaporator Cooling Water to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	April 1992
M-17-31	Submit the Sampling and Analysis Plan for the 242-A Evaporator Steam Condensate to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	April 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 15 of 33)

Number	Milestone	Due Date
M-17-32	Complete 'Tank Farm Ventilation Upgrade' (Project W-030)	Dec. 1996
M-17-32A	Submit the Sampling and Analysis Plan for the 241-A Tank Farm Cooling Water to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	April 1992
M-17-33	Submit the Sampling and Analysis Plan for the 244-AR Vault Cooling Water to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	April 1992
M-17-34	Cease all discharges to the 216-W-LWC Crib	Jan. 1995
M-17-34A	Submit the Sampling and Analysis Plan for the 2724-W Laundry Wastewater to the EPA and Ecology as a primary document	Jan. 1992
M-17-34B	Complete construction of Laundry Effluent 2724-W Wastewater treatment project (B-697)	Jan. 1992
M-17-35	Cease discharge of the Decontamination Laundry Facility liquid effluent to the 216-B-3 Pond system Note 1: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08 Note 2: Upon written notification by USDOE to Ecology and EPA that USDOE has made a decision to obtain future laundry services from an offsite commercial source rather than through construction and operation of a new onsite laundry facility, performance of the milestones and interim restrictions relating to the new Decontamination Laundry Facility (Project B-503) shall no longer be required.	~~June 1995~~ DELETED

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 16 of 33)

Number	Milestone	Due Date
M-17-35A	Complete definitive design of 'Decontamination Laundry Facility' (Project B-503) and submit design documentation to the EPA and Ecology as a primary document Note: Upon written notification by USDOE to Ecology and EPA that USDOE has made a decision to obtain future laundry services from an offsite commercial source rather than through construction and operation of a new onsite laundry facility, performance of the milestones and interim restrictions relating to the new Decontamination Laundry Facility (Project B-503) shall no longer be required	~~Sept. 1992~~ DELETED
M-17-35B	Submit the construction test plan for 'Decontamination Laundry Facility' (Project B-503) to the EPA and Ecology as a primary document Note: Upon written notification by USDOE to Ecology and EPA that USDOE has made a decision to obtain future laundry services from an offsite commercial source rather than through construction and operation of a new onsite laundry facility, performance of the milestones and interim restrictions relating to the new Decontamination Laundry Facility (Project B-503) shall no longer be required	~~April 1993~~ DELETED
M-17-35C	Complete construction of 'Decontamination Laundry Facility' (Project B-503) Note: Upon written notification by USDOE to Ecology and EPA that USDOE has made a decision to obtain future laundry services from an offsite commercial source rather than through construction and operation of a new onsite laundry facility, performance of the milestones and interim restrictions relating to the new Decontamination Laundry Facility (Project B-503) shall no longer be required	~~October 1994~~ DELETED

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 16 of 33)

Number	Milestone	Due Date
M-17-35D	Initiate full-scale hot operations of the Decontamination Laundry Facility with discharge of BAT/AKART effluent to the 216-B-3 Pond system Note: Upon written notification by USDOE to Ecology and EPA that USDOE has made a decision to obtain future laundry services from an offsite commercial source rather than through construction and operation of a new onsite laundry facility, performance of the milestones and interim restrictions relating to the new Decontamination Laundry Facility (Project B-503) shall no longer be required	~~Jan. 1995~~ DELETED
M-17-36	Submit the Sampling and Analysis Plan for the 183-D Filter Backwash to the EPA and Ecology as a primary document	April 1992
M-17-37	Submit the Sampling and Analysis Plan for the 284-E Powerplant Wastewater to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	April 1992
M-17-38	Cease all discharges to the 284-W Powerplant Pond Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-38A	Submit the Sampling and Analysis Plan for the 284-W Powerplant Wastewater to the EPA and Ecology as a primary document	April 1992
M-17-39	Cease all discharges to the 216-S-26 Crib Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-39A	Submit the Sampling and Analysis Plan for the 222-S Laboratory Wastewater to the EPA and Ecology as a primary document	Jan. 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 17 of 33)

Number	Milestone	Due Date
M-17-40	Cease all discharges to the 216-S-10 Ditch	October 1991
M-17-41	Cease all discharge to the 216-T-4-2 Ditch	June 1995
	Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	
M-17-41A	Submit the Sampling and Analysis Plan for the T Plant Wastewater to the EPA and Ecology as a primary document	Jan. 1992
M-17-42	Cease all discharges to the 216-T-1 Ditch	June 1995
	Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	
M-17-42A	Submit the Sampling and Analysis Plan for the T Plant Laboratory Wastewater to the EPA and Ecology as a primary document	April 1992
M-17-43	Cease all discharges to the 2101-M Pond	June 1995
	Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	
M-17-43A	Eliminate effluent contributions to the 2101-M Laboratory Wastewater from 2 of 9 HVAC coolers serving the 2101-M Laboratory	Jan. 1992
M-17-43B	Submit the Sampling and Analysis Plan for the 2101-M Laboratory Wastewater to the EPA and Ecology as a primary document	Jan. 1992
M-17-44	Submit the Sampling and Analysis Plan for the 400 Area Secondary Cooling Water to the EPA and Ecology as a primary document	April 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 18 of 33)

Number	Milestone	Due Date
M-18-00	**Complete Waste Receiving and Processing (WRAP) Module I construction and initiate operations.** The WRAP Module I is required to sort and repackage wastes that are planned to be retrieved from retrievable storage units. Much of the waste currently stored in the retrievable storage units is anticipated to be radioactive mixed waste. Some of the radioactive waste stored on the pads is known to contain extremely hazardous waste as well as federally land-banned waste	**Sept. 1996**
M-18-01	Complete construction of WRAP Module I	Sept. 1995
M-19-00	**Complete WRAP Module II construction and initiate operations.** The WRAP Module II will include waste treatment capabilities to minimize land disposal of low-level radioactive waste and radioactive mixed waste. The September 1999 completion date of WRAP Module II is critical to achieving compliance for the management of wastes that are prohibited from land disposal and extended storage.	**Sept. 1999**
M-19-01	Complete construction of WRAP Module II	Sept. 1998
M-20-00	**Submit Part B permit applications or closure plans for all RCRA TSD units.** All Part B permit applications, closure plans, and post-closure permit applications will be submitted to Ecology and the EPA by May 1996. Individual unit submittals will occur as shown in the Appendix D work schedules. Scheduled submittal dates shall be enforceable as interim milestones	**May 1996**
M-20-01	Submit HWVP (TS-2-5) Part B to Ecology and EPA	July 1989

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 19 of 33)

Number	Milestone	Due Date
M-20-02	Submit 616 Storage Facility (S-6-1) Part B to Ecology and EPA	July 1989
M-20-03	Submit Single-Shell Tank System (S-2-4) Closure/Corrective Action Work Plan to Ecology and EPA	Sept. 1989
M-20-04	Submit 2101-M Pond (D-2-1) Closure Plan to Ecology and EPA	Sept. 1989
M-20-05	Submit Central Waste Complex - RMW Storage (B-2-4) Part B to Ecology and EPA	Oct. 1991
M-20-06	Submit Low-Level Burial Grounds (D-2-9) Part B to Ecology and EPA	Dec. 1989
M-20-07	Submit Nonradioactive Dangerous Waste Landfill (D-6-1) Closure/Post-Closure Plan to Ecology and EPA	Aug. 1990
M-20-08	Submit 305-B Storage Facility (S-3-2) Part B to Ecology and EPA	Jan. 1990
M-20-09	Submit 216-B-3 Pond (D-2-5) Closure/Post-Closure Plan to Ecology and EPA	March 1990
M-20-10	Submit 300 Area Waste Acid System (TS-3-1) Closure Plan to Ecology and EPA (includes 311 Tanks)	June 1990
M-20-11	Submit PUREX Tunnels (S-2-1) Part B to Ecology and EPA	Sept. 1990
M-20-12	Submit Central Waste Complex - (TS-2-4) WRAP Part B to Ecology and EPA	Oct. 1991
M-20-13	Submit 303-K Storage Area (S-3-1) Closure Plan to Ecology and EPA	April 1990
M-20-14	Submit 4843 Alkali Metal Storage Facility (S-4-1) Closure Plan to Ecology and EPA	June 1991
M-20-15	Submit 304 Concretion Facility (TS-3-2) Closure Plan to Ecology and EPA	April 1990

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 20 of 33)

Number	Milestone	Due Date
M-20-16	Submit Double-Shell Tanks (S-2-3) Part B to Ecology and EPA	June 1991
M-20-17	Submit 242-A Evaporator (T-2-6) Part B to Ecology and EPA	June 1991
M-20-18	Submit 3718-F Alkali Metal Treatment and Storage Facility (TS-3-3) Closure Plan to Ecology and EPA	Dec. 1991
M-20-19	Submit Simulated High-Level Slurry Treatment/ Storage (TS-3-4) Closure Plan to Ecology and EPA	Sept. 1989
M-20-20	Submit 325 Waste Treatment Unit and 3100 Hazardous Waste Treatment Unit Part B to Ecology and EPA	April 1992
M-20-21	Establish new interim milestone date for submittal of B Plant Part B Permit Application or Closure Plan	Jan. 1992
M-20-22	Submit 222-S Laboratory (TS-2-1) Part B to Ecology and EPA	Dec. 1991
M-20-23	Submit TRUSAF Storage (S-2-2) Part B to Ecology and EPA	June 1992
M-20-24	Submit PUREX (TS-2-6) Part B to Ecology and EPA	Sept. 1992
M-20-25	Submit Hanford Patrol Academy Demolition Sites (T-11-1) Part B to Ecology and EPA	Nov. 1992
M-20-26	Submit Ashpit Demolition Site (T-2-2) Closure Plan to Ecology and EPA	Nov. 1992
M-20-27	Submit Hexone Storage and Treatment (TS-2-2) Closure Plan to Ecology and EPA	Nov. 1992
M-20-28	Submit E-8 Borrow Pit Demolition Site (T-2-1) Closure Plan to Ecology and EPA	Nov. 1992
M-20-29	Submit MASF (T-4-1) Part B to Ecology and EPA	Nov. 1993

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 21 of 33)

Number	Milestone	Due Date
M-20-30	Submit 303-M Oxide Facility (T-3-2) Part B to Ecology and EPA	Oct. 1992
M-20-31	Submit 1301-N/1325-N (D-1-2) Closure Plan/ Post-Closure Plan to Ecology and EPA	May 1994
M-20-32	Submit 300 Area Process Trenches (D-3-1) Closure/Post-Closure Plan to Ecology and EPA	Aug. 15, 1994
M-20-33	Submit 216-A-10 Crib (D-2-2) Closure/ Post-Closure Plan to Ecology and EPA	March 1996
M-20-34	Submit 216-A-36B Crib (D-2-4) Closure/ Post-Closure Plan to Ecology and EPA	March 1996
M-20-35	Submit 1324-N/1324-NA (T-1-2) Closure Plan to Ecology and EPA	Sept. 1994
M-20-36	Submit 216-A-29 Ditch(D-2-3) Closure/ Post-Closure Plan to Ecology and EPA	May 1996
M-20-37	Submit 216-U-12 Crib (D-2-8) Closure Plan/ Post-Closure Plan to Ecology and EPA	Nov. 1994
M-20-38	Submit 216-B-63 Trench (D-2-6) Closure Plan to Ecology and EPA	May 1996
M-20-39	Submit 216-S-10 Pond and Ditch (D-2-7) Closure Plan to Ecology and EPA	May 1996
M-20-40	Submit 100-D Ponds (D-1-1) Closure Plan to Ecology and EPA	Feb. 1993
M-20-41	Submit 105-DR (T-1-1) Closure Plan to Ecology and EPA	Sept. 1990
M-20-42	Submit Thermal Treatment (T-X-3) Part B to Ecology and EPA	Dec. 1993
M-20-43	Submit Physical/Chemical Treatment (T-X-2) Part B to Ecology and EPA	Dec. 1994
M-20-44	Submit Biological Treatment (T-X-1) Part B to Ecology and EPA	Dec. 1995

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 22 of 33)

Number	Milestone	Due Date
M-20-45	Submit petitions to Ecology to withdraw Part A permit applications for 332 Storage Facility, 1706-KE Treatment Facility, 2727-WA Sodium Storage Facility, 221-T Alkali Metal Treatment and Storage Facility, and 324 Sodium Treatment Pilot Plant	June 1989
M-20-46	Submit petitions to Ecology to manage the following facilities as "treatment by generator" facilities: T Plant Treatment Tank, 222-S Treatment Tank, PUREX Treatment Tanks, 204-AR Waste Unloading Facility, and 241-Z Treatment Tank	June 1989
M-20-47	Submit Part B permit application for 200 East Area LERF to EPA and Ecology	June 1991
M-20-49	Submit RCRA Research, Development and Demonstration (RD&D) permit application for the 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility (Project C-018H) pilot plant testing in accordance with 40 CFR 270.65.	Oct. 1991
M-20-50	Submit complete RCRA Part B permit application for the 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility (Project C-018H) to Ecology for approval, which includes 80% design detail and available pilot plant test results, to Ecology as a primary document.	Aug. 1993
M-21-00	Submit RCRA interim status compliance assessments for all TSD units. RCRA operational units and those undergoing closure will be assessed for compliance with RCRA and state Dangerous Waste interim status requirements. Part A applications which will be withdrawn or units not yet constructed are not included in these assessments. Copies of the assessment documentation will be provided to Ecology within 30 days of assessment completion. The last assessment will be completed by March 31, 1989. Facilities to be assessed by March 31, 1989, include tank farms, low-level burial grounds, Plutonium Finishing Plant, PUREX, B Plant,	April 1989

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 23 of 33)

Number	Milestone	Due Date
M-21-00 (Continued)	N Reactor, 100 K Area Fuel Storage, Fast Flux Text Facility, T Plant, 222-S, 616 Storage Facility, Central Waste Complex, Nonradioactive Dangerous Waste Landfill, 300 Area Fuel Fabrication Facilities, Patrol demolition site, 4843 Sodium Storage Facility, 3718-F Alkali Metal Treatment and Storage, single-shell tanks, hexone tanks, 183-H, 2727-S, 300 Area Solvent Evaporator, 105-DR Sodium Fire Facility, E-8 Borrow Pit, 200 West Ash Pit, 216-U-12 Crib, 2101-M Pond, 216-S-10 Ditch and Pond, and 100-D Ponds.	
M-22-00	**Establish enforceable compliance action schedules.**	**Dec. 1989**
	Schedules will be developed for review and approval by Ecology and the EPA for any actions identified in the interim status compliance assessments that are necessary to ensure compliance with interim status requirements. Specific compliance actions will become enforceable interim milestones under M-23-00.	
M-22-01	Submit petitions or requests for variance from interim status standards to Ecology and EPA.	Sept. 1989
M-23-00	**Complete Interim Status Corrective Actions.**	**Sept.1991**
	Complete actions identified in interim status compliance assessments (M-21-00) excluding groundwater monitoring and closure plans. Petitions for modification of inspection and labeling requirements were submitted to Ecology in September 1989 (M-21-01). Pending resolution, inspections and labeling will be performed per existing operations procedures.	
M-23-01	Resubmit Treatment by Generator Requests for: T-Plant, 222-S, PUREX and 204-AR.	Sept. 1990

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 24 of 33)

Number	Milestone	Due Date
M-23-02	Resubmit Request for Part A Permit Application withdrawal for the following facilities: 221-T Containment System Test Facility and the 324 Sodium Removal Pilot Plant	Jan. 1990
M-23-03	Complete Waste Analysis Plans for Double Shell Tanks, 242-A Evaporator, and B Plant active TSD units. Waste Analysis Plans will be upgraded when additional laboratory capabilities are available pursuant to Milestones M-11-00 and M-14-00	Dec. 1990
M-23-04	Complete Waste Analysis Plans for 4843 Storage Facility and Single Shell Tanks	June 1990
M-23-05	Complete Contingency Plans for Low-Level Burial Grounds, 4843 Storage Facility, Central Waste Complex, T-Plant, TRUSAF, and 616	June 1990
M-23-06	Complete Contingency Plans for Single-Shell Tanks, Double-Shell Tanks and 242-A Evaporator	Oct. 1990
M-23-07	Complete Interim Status Corrective Actions for 222-S Storage Pad	March 1990
M-23-08	Complete Interim Status Corrective Actions for 4843 Storage Facility	June 1990
M-23-09	Notify Ecology of Decision on Operating Status of 3718-F Alkali Metal Treatment Facility	Sept. 1990
M-23-10	If Operational, Complete Interim Status Corrective Actions for 3718-F	~~Sept. 1991~~ DELETED
M-23-11	Complete Interim Status Corrective Actions for Single Shell Tanks	Dec. 1990
M-23-12	Complete Interim Status Corrective Actions for Double Shell Tanks	Dec. 1990
M-23-13	Complete Interim Status Corrective Actions for 242-A Evaporator	Dec. 1990

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 25 of 33)

Number	Milestone	Due Date
M-23-14	Complete Interim Status Corrective Actions for Low-Level Burial Grounds	Jan. 1991
M-23-15	Complete Interim Status Corrective Actions for TRUSAF (224-T)	June 1990
M-23-16	Complete Interim Status Corrective Actions for 616 facility	June 1990
M-23-17	Complete Interim Status Corrective Actions for Central Waste Complex	June 1990
M-23-18	Complete Interim Status Corrective Actions for B-Plant	Sept. 1991
M-23-19	Complete All B-Plant Cell 4 Corrective Actions	Dec. 1990
M-23-20	Complete Interim Status Corrective Actions for T-Plant.	Jan. 1991
M-24-00	**Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and 50 per year thereafter until all land disposal units and single-shell tanks are determined to have RCRA compliant monitoring systems** USDOE will install groundwater monitoring wells around RCRA land disposal units and the single-shell tanks at the rate described above until Ecology determines that all such groundwater monitoring systems meet the requirements of WAC 173-303-645. Installation of groundwater wells shall mean that wells have been drilled, adequately sealed, and screened over no more than 15 feet of the aquifer unless otherwise approved by Ecology, that all pumps and associated sampling equipment have been installed, and that such wells have been developed sufficiently to provide satisfactory samples for all parameters to be analyzed.	Annually Beginning CY 1989

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 26 of 33)

Number	Milestone	Due Date
M-24-00 (Continued)	Specific units to receive groundwater wells and the number of wells to be installed at each unit will be identified in Appendix D in two-year intervals (i.e., CY 1989 and CY 1990 now, CY 1990 and CY 1991 at the next annual update, etc.). Such schedules will be enforceable as interim milestones.	
M-24-01	Install 10 additional wells around the Low-Level Burial Grounds for a total of 45 RCRA groundwater wells	Dec. 1989
M-24-02	Install 5 additional wells around B Pond for a total of 9 RCRA monitoring wells	Dec. 1989
M-24-03	Install 12 wells around the SSTs for a total of 12 RCRA monitoring wells	Dec. 1989
M-24-04	Install 2 additional wells around the grout vault area for a total of 7 RCRA monitoring wells	Dec. 1989
M-24-05	Install 1 additional well around the Grout Vault Area for a total of 8 RCRA monitoring wells	Dec. 1990
M-24-06	Install 6 additional wells around the Low-Level Burial Grounds for a total of 51 RCRA monitoring wells	Dec. 1990
M-24-07	Install 11 additional wells around the SSTs for a total of 23 RCRA monitoring wells (Note: Major Milestone M-24-00 for 1990 was also extended to October 7, 1991 to reflect this change.)	Oct. 7, 1991
M-24-08	Install 4 wells around the B-63 Trench for a total of 4 RCRA monitoring wells	Dec. 1990
M-24-09	Install 3 wells around the S-10 Ditch and Pond for a total of 3 RCRA monitoring wells	Dec. 1990

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 27 of 33)

Number	Milestone	Due Date
M-24-10	Install 4 wells around the U-12 Crib for a total of 4 RCRA monitoring wells	Dec. 1990
M-24-11	Install 1 additional well around B Pond for a total of 10 RCRA monitoring wells	Dec. 1990
M-24-12	Install 18 additional RCRA wells around low-level burial grounds (69 total)	Dec. 1991
M-24-13	Install 3 RCRA wells around 216-S10-Pond	Dec. 1991
M-24-14	Install 4 additional RCRA wells around the 100-D Ponds	Dec. 1991
M-24-15	Install 10 additional RCRA wells around the SSTs (33 total)	Dec. 1991
M-24-16	Install 7 additional RCRA wells around the B-Pond (17 total)	Dec. 1991
M-24-17	Install 3 additional RCRA wells around the 1324-N/NA and 1 around the 1325-N Ponds	Dec. 1991
M-24-18	Install 4 additional RCRA wells around the 216-A-29 ditch	Dec. 1991
M-24-19	Install 10 additional RCRA wells around the low-level burial grounds (79 total)	Dec. 1992
M-24-20	Install 2 additional RCRA wells around the Grout facility (10 total)	Dec. 1992
M-24-21	Install 2 RCRA wells around the 1301-N Crib (9 total)	Dec. 1992
M-24-22	Install 1 additional RCRA well around the 1324-N Pond (12 total)	Dec. 1992
M-24-23	Install 1 additional RCRA well around the S-10 Pond and Ditch (7 total)	Dec. 1992
M-24-24	Install 2 additional RCRA wells around the B-63 Trench (6 total)	Dec. 1992
M-24-25	Install 2 additional RCRA wells around the 216-A-29 Ditch (9 total)	Dec. 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 28 of 33)

Number	Milestone	Due Date
M-24-26	Install 2 RCRA wells around the NRDWL (9 total)	Dec. 1992
M-24-27	Install 2 additional wells around the B-Pond (19 total)	Dec. 1992
M-24-28	Install 2 additional wells around the SST's (35 total)	Dec. 1992
M-25-00	**Provide annual reports of studies/efforts that are in progress to identify alternatives to land disposal of radioactive mixed wastes.** The annual reports will provide information regarding actions taken to minimize waste generation, recycle/reclaim wastes, or treat wastes No interim milestones to be identified; each annual report is tracked as a major milestone	Annually Beginning March 1990
M-26-00	**Submit "Hanford Land Disposal Restrictions Plan for Mixed Wastes" (LDR Plan) in accordance with "Requirements for the Hanford LDR Plan" issued by EPA and Ecology, dated April 10, 1990.** Land disposal restriction (LDR) requirements include limitations on storage of specified hazardous wastes (including mixed wastes). In accordance with approved plans and schedules, DOE shall develop and implement treatment technologies necessary to achieve full compliance with LDR requirements for mixed wastes at the Hanford Site. LDR plans and schedules shall be developed with consideration of other Action Plan milestones and will not become effective until approved by EPA (or Ecology upon authorization to administer LDR pursuant to Section 3006 of RCRA). Disposal of LDR wastes at any time is prohibited except in accordance with applicable LDR requirements. DOE shall comply with all applicable LDR requirements	Oct. 1990

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 29 of 33)

Number	Milestone	Due Date
	for nonradioactive wastes at all times. The LDR Plan will include, but not be limited to the following: a. Waste Characterization Plan; b. Storage Report; c. Treatment Report; d. Treatment Plan; e. Waste Minimization Plan; f. A schedule, depicting the events necessary to achieve full compliance with LDR requirements; g. A process for establishing interim milestones	
M-26-01	Submit an Annual Hanford Land Disposal Restrictions Report in accordance with the LDR Plan to cover the period from October 1 through September 30 The reports shall include a description of activities taken in accordance with the LDR Plan and prior annual reports to achieve full compliance with LDR requirements. The reports shall update all information contained in the LDR Plan and the prior annual report, including plans and schedules	Annually Beginning October 1991
M-26-02	Establish interim milestones for LDR compliance Schedules for achieving compliance with LDR requirements at TSD mixed waste units (or as otherwise approved) shall be developed in accordance with the LDR Plan and the annual reports. Such schedules will be subject to review and approval by EPA (or Ecology upon authorization to administer LDR pursuant to Section 3006 of RCRA)	Annually Beginning October 1990
M-26-03	Cease discharge of 242-A Evaporator process condensate effluent to LERF units DOE may discharge process condensate effluent from the 242-A Evaporator to Liquid Effluent Retention Facility (LERF) units from December 1990 through December 1994 if (1) the placement of such effluent	Dec. 1994

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 30 of 33)

Number	Milestone	Due Date
M-26-03 (Continued)	into LERF is necessary for completion of milestones required by the Agreement; (2) interim status authorization includes these units or a RCRA permit covering these units has been issued; (3) the units satisfy the requirements of 40 CFR Part 264, Subpart K, or 40 CFR Part 265, Subpart K; (4) the units maintain a floating cover which minimizes evaporation; (5) the units comply with all applicable hazardous waste requirements; and (6) prior certification of compliance with 40 CFR 268.4(a)(3) is submitted in accordance with 40 CFR 268.4(a)(4). Discharges of effluent containing hazardous waste subject to the land disposal restrictions other than process condensate from the evaporator to LERF is prohibited	
M-26-04	Remove all hazardous waste residues from the 242-A Evaporator LERF units Remove all hazardous waste residues (including any liquid waste) that do not meet LDR treatment standards and applicable prohibition levels imposed by regulation or statute and residues from wastes prohibited from land disposal where no treatment standards have been established and no prohibition levels apply, or which are not delisted pursuant to 40 CFR 260.22 and WAC 173-303-072	June 1995
M-27-00	**Submit all Aggregate Area Management Study Reports (AAMSR) for the 200 Area to EPA and Ecology as secondary documents. These documents shall be prepared in accordance with the objectives of the "Hanford Past-Practice Investigation Strategy" and the outlines provided in the "200 Area Aggregate Area Management Study Guidelines," both of which are included in Appendix F.**	**Sept. 1992**
M-27-01	Submit methodology and format for AAMSR (to be included as Chapter 1 of each AAMSR) to EPA and Ecology as secondary document	June 1991

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 31 of 33)

Number	Milestone	Due Date
M-27-02	Submit AAMSR for U-Plant Waste Management Area (for all source term operable units with "200-UP" designations)	Jan. 1992
M-27-03	Submit AAMSR for Z-Plant Waste Management Area (for all source term operable units with "200-ZP" designations)	Feb. 1992
M-27-04	Submit AAMSR for REDOX Waste Management Area (for all source term operable units with "200-RO" designations)	March 1992
M-27-05	Submit AAMSR for T-Plant Waste Management Area (for all source term operable units with "200-TP" designations and for operable unit 200-SS-2)	April 1992
M-27-06	Submit AAMSR for PUREX Waste Management Area (for all source term operable units with "200-PO" designations)	May 1992
M-27-07	Submit AAMSR for B-Plant Waste Management Area (for all source term operable units with "200-BP" designations [except for the 200-BP-1 operable unit] and for operable units 200-SS-1 and 200-IU-6)	June 1992
M-27-08	Submit AAMSR for Semi-Works Waste Management Area (for all source term operable units with "200-SO" designations)	July 1992
M-27-09	Submit AAMSR for 200-North Waste Management Area (for all operable units with "200-NO" designations, including groundwater impacted by the source terms)	Aug. 1992
M-27-10	Submit AAMSR for 200-West Groundwater Aggregate Area, including all groundwater impacted by the 200-West Area source term operable units	Sept. 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 32 of 33)

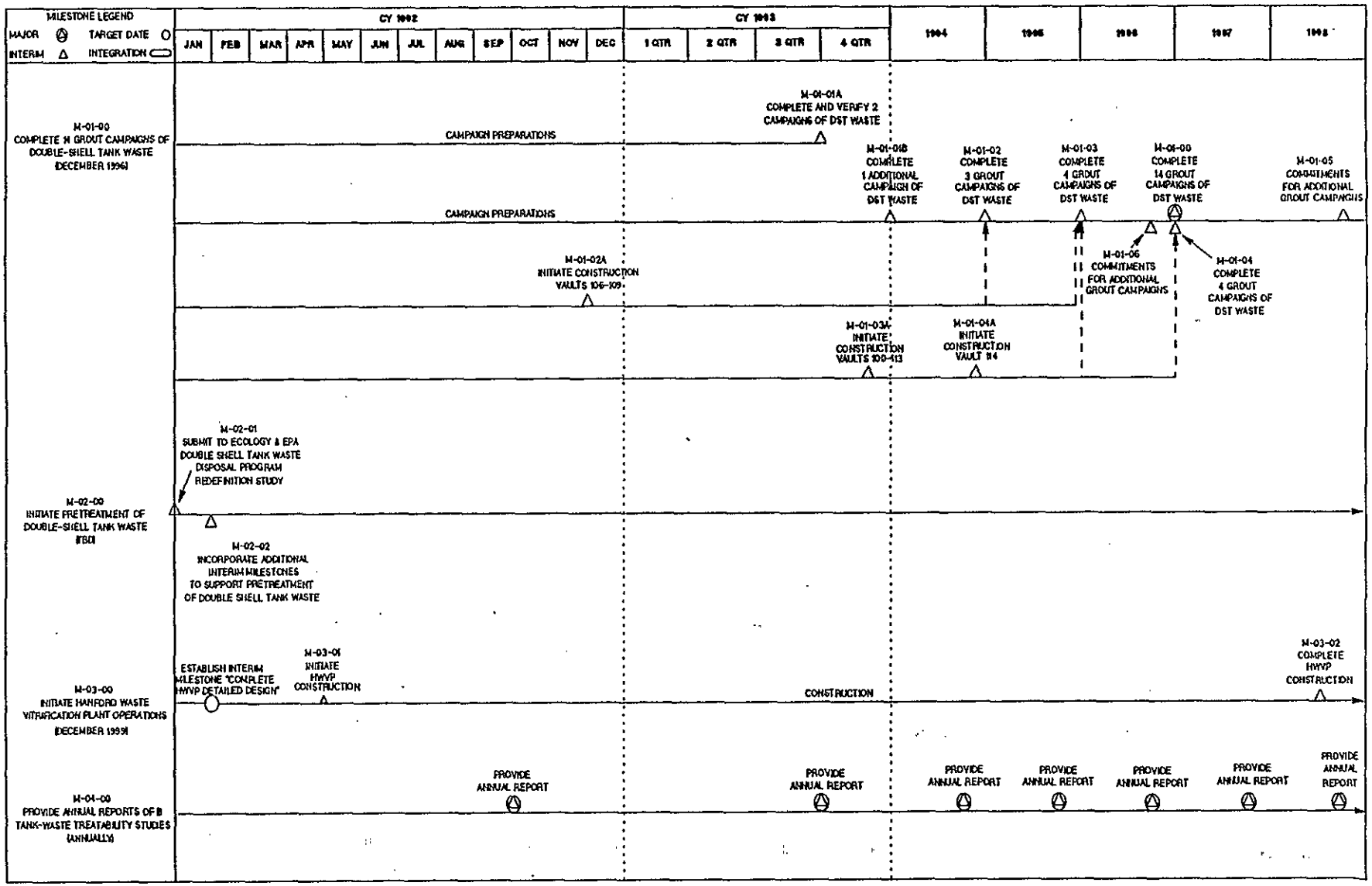
Number	Milestone	Due Date
M-27-11	Submit AAMSR for 200-East Groundwater Aggregate Area, including all groundwater impacted by the 200-East Area source term operable units	Sept. 1992
M-28-00	**Submit all soils and groundwater background determination documents to EPA and Ecology.**	April 1992
M-28-01	Submit soils background sampling and analysis plan and quality assurance project plan (secondary document)	June 1991
M-28-02	Submit background methodology description document for soils and groundwater (secondary document)	July 1991
M-28-03	Submit soils study report (primary document), establishing background values for soil at the Hanford Site and include report in Appendix F	Feb. 1992
M-28-04	Submit evaluation report on existing groundwater data (primary document) establishing background values for groundwater at the Hanford Site and include report in Appendix F	April 1992
M-29-00	**Develop and submit documentation to EPA and Ecology describing Hanford risk assessment methodology**	March 1992
M-29-01	Identify and submit descriptions of codes and models (secondary document) to be used in risk assessment	Sept. 1991
M-29-02	Submit a plan for development of area-wide groundwater models to support risk assessment and to evaluate impacts of changing groundwater flow fields (secondary document)	Dec. 1991
M-29-03	Submit risk assessment methodology document (primary document) and include document in Appendix F	March 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 33 of 33)

Number	Milestone	Due Date
M-30-00	**Complete integrated general investigations and studies for the 100-Area**	**Sept. 1993**
M-30-01	Submit a report (secondary document) to EPA and Ecology evaluating the impact to the Columbia River from contaminated springs and seeps, as described in the operable unit work plans listed in M-30-03	Feb. 1992
M-30-02	Submit a plan (primary document) to EPA and Ecology to determine cumulative health and environmental impacts to the Columbia River, incorporating results obtained under M-30-01	May 1992
M-30-03	Complete all non-intrusive field work as identified in draft work plans for the following operable unit work plans: 100-HR-1, 100-HR-3, 100-DR-1, 100-BC-1, 100-BC-5, 100-KR-1, 100-KR-4, 100-NR-1, 100-NR-3, 100-FR-1 and 100-FR-3	Sept. 1992
M-30-04	Submit a report (secondary document) to EPA and Ecology evaluating the interaction of Columbia River and the unconfined aquifer for aquifer hydraulic parameters	Sept. 1992
M-30-05	Install all field instrumentation and initiate monitoring activities necessary to perform long-term evaluation of Columbia River and unconfined aquifer interaction, in accordance with the tasks defined in operable unit work plans listed in M-30-03	Sept. 1993
M-31-00	**Provide additional double-shell tank capacity. Construction complete.**	**TBD**
M-31-01	Complete the Conceptual Design Reports (CDR) for up to four (4) tanks. DOE-RL will propose appropriate milestones for tank construction upon completion of conceptual design	Sept. 1992
M-31-02	Recommend additional double-shell tank milestone(s)	Sept. 1992

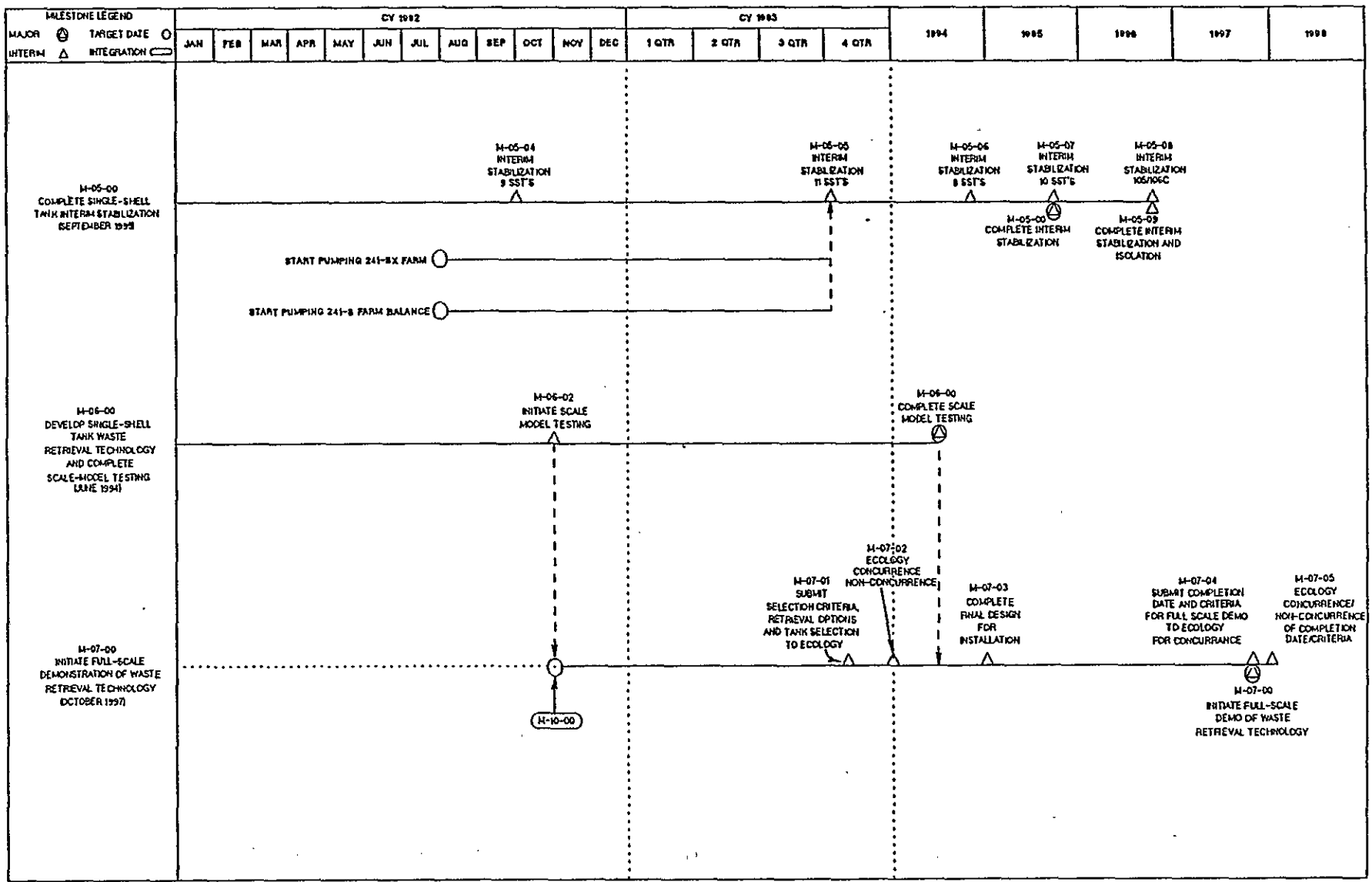
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



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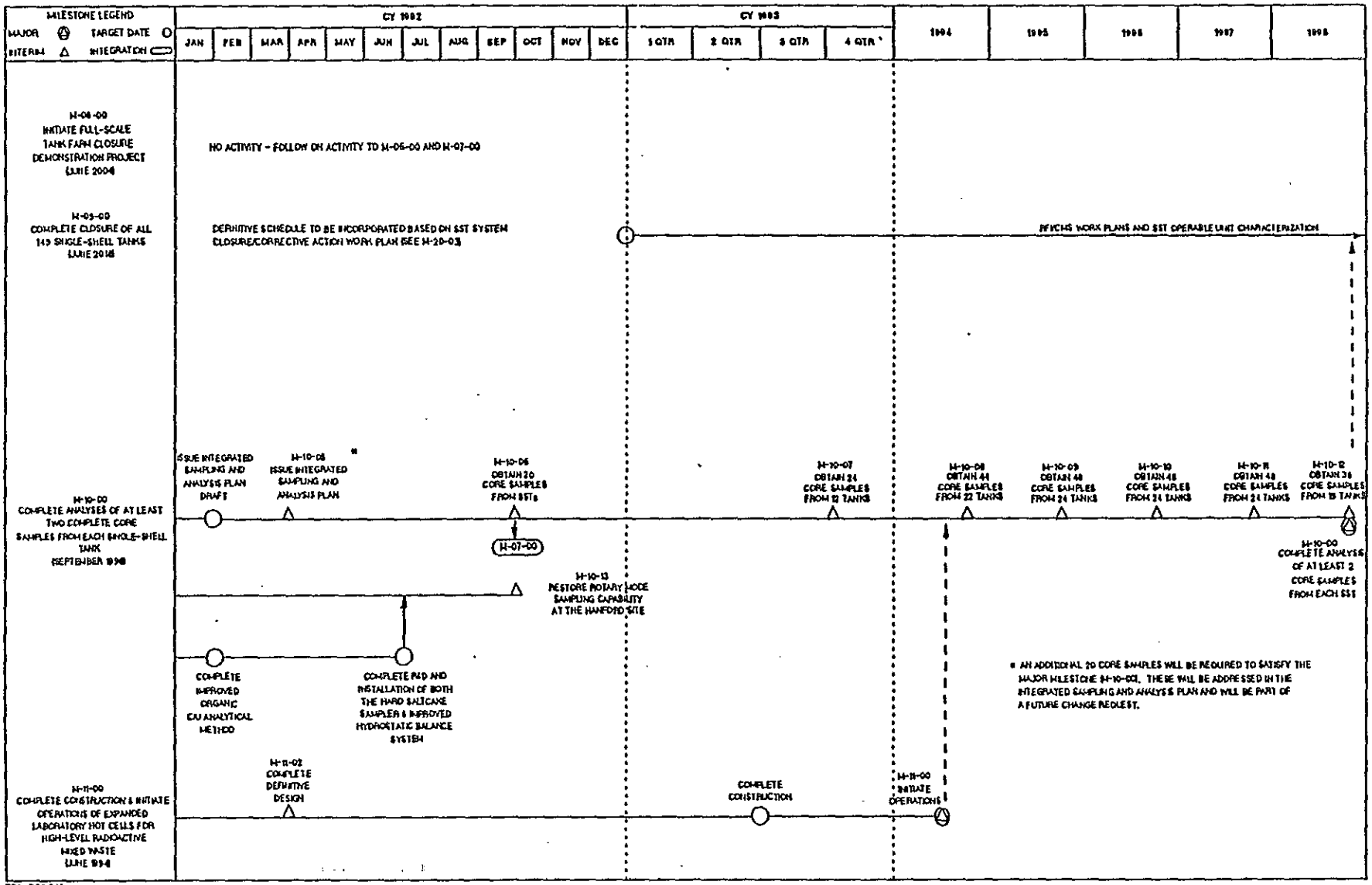
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



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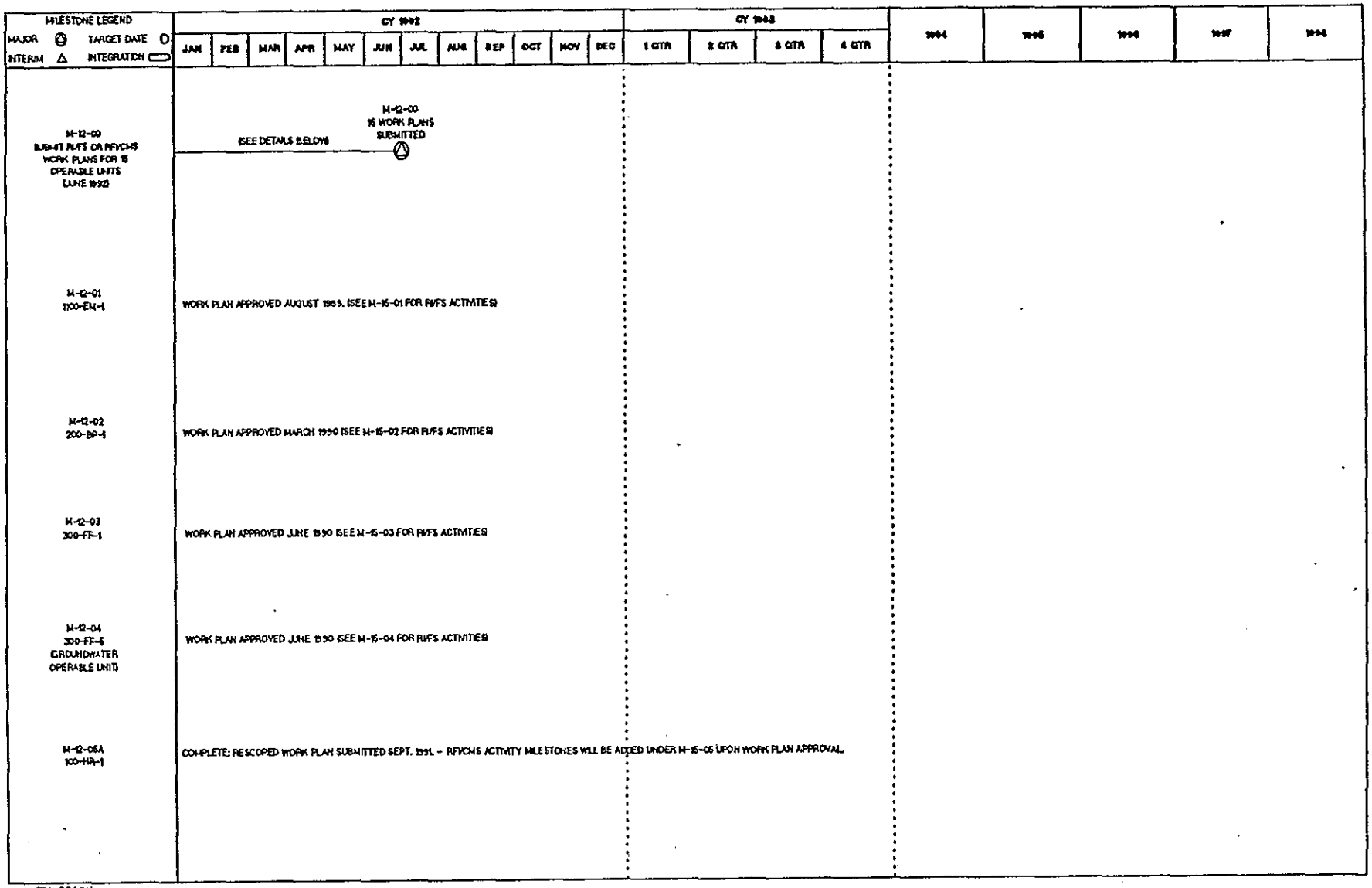
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



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FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MILESTONE LEGEND MAJOR ◎ TARGET DATE ○ INTERIM △ INTEGRATION ▭	CY 1992												CY 1993				1994	1995	1996	1997	1998
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1 QTR	2 QTR	3 QTR	4 QTR					
M-12-06A 100-HR-3 (GROUNDWATER OPERABLE UNIT)	COMPLETE: RESCOPED WORK PLAN SUBMITTED SEPTEMBER 1991 – RI/FS/CMS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-06 UPON WORK PLAN APPROVAL																				
M-12-07A 100-DR-1	COMPLETE: RESCOPED WORK PLAN SUBMITTED SEPTEMBER 1991 – RI/FS/CMS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-07 UPON WORK PLAN APPROVAL																				
M-12-08A 100-BC-1	COMPLETE: RESCOPED WORK PLAN SUBMITTED SEPTEMBER 1991 – RI/FS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-08 UPON WORK PLAN APPROVAL																				
M-12-09A 100-BC-5 (GROUNDWATER OPERABLE UNIT)	COMPLETE: RESCOPED WORK PLAN SUBMITTED SEPTEMBER 1991 – RI/FS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-09 UPON WORK PLAN APPROVAL																				
M-12-10A 100-KR-1	COMPLETE: RESCOPED WORK PLAN SUBMITTED OCTOBER 1991 – RI/FS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-10 UPON WORK PLAN APPROVAL																				
M-12-11A 100-KR-4 (GROUNDWATER OPERABLE UNIT)	COMPLETE: RESCOPED WORK PLAN SUBMITTED OCTOBER 1991 – RI/FS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-11 UPON WORK PLAN APPROVAL																				
M-12-12A 100-HR-1	COMPLETE: RESCOPED WORK PLAN SUBMITTED DECEMBER 1991 – RI/FS/CMS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-12 UPON WORK PLAN APPROVAL																				

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FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MILESTONE LEGEND	CY 1992												CY 1993				1994	1995	1996	1997	1998
MAJOR ◎ TARGET DATE ○ INTERIM △ INTEGRATION ⇨	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1 QTR	2 QTR	3 QTR	4 QTR					
M-12-13A 100-FR-1 AND 100-FR-3	COMPLETE: WORK PLAN SUBMITTED NOVEMBER 1991 - RI/FS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-13 UPON WORK PLAN APPROVAL.																				
M-12-14A 100-NR-2	COMPLETE: RESCOPED WORK PLAN SUBMITTED DECEMBER 1991 - RI/FS/CMS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-14 UPON WORK PLAN APPROVAL.																				
M-12-15 200-UP-2	△ M-12-15 SUBMIT WORK PLAN FOR 200-UP-2 OR AN AGREED UPON ALTERNATIVE												RI/FS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-15 UPON WORK PLAN APPROVAL.								
M-12-16 100-BC-2	DELETED - SCOPE INCLUDED IN MAJOR MILESTONE M-13-00																				
M-12-17 200-BP-5	DELETED - SCOPE INCLUDED IN MAJOR MILESTONE M-13-00																				

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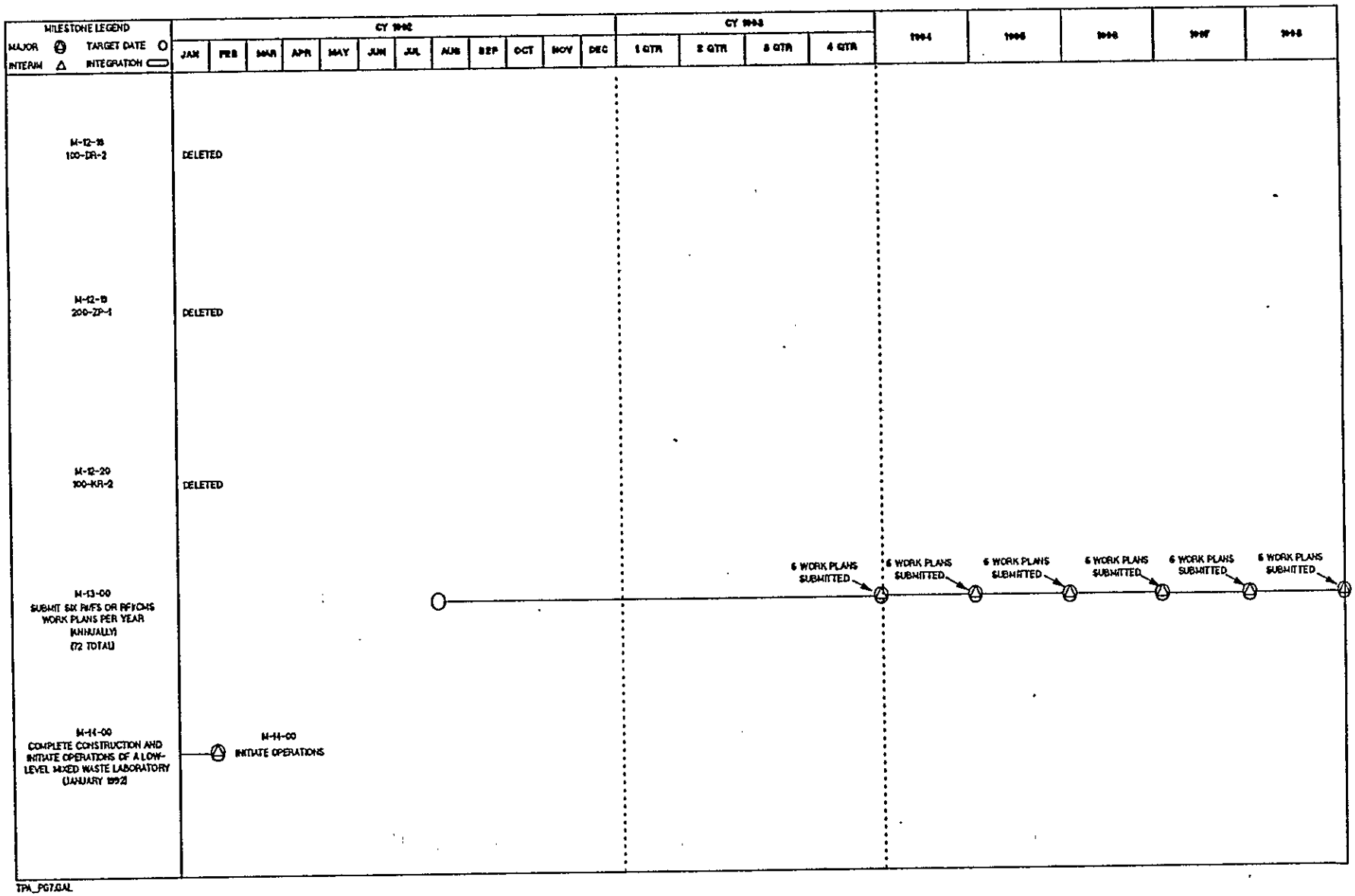
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



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FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

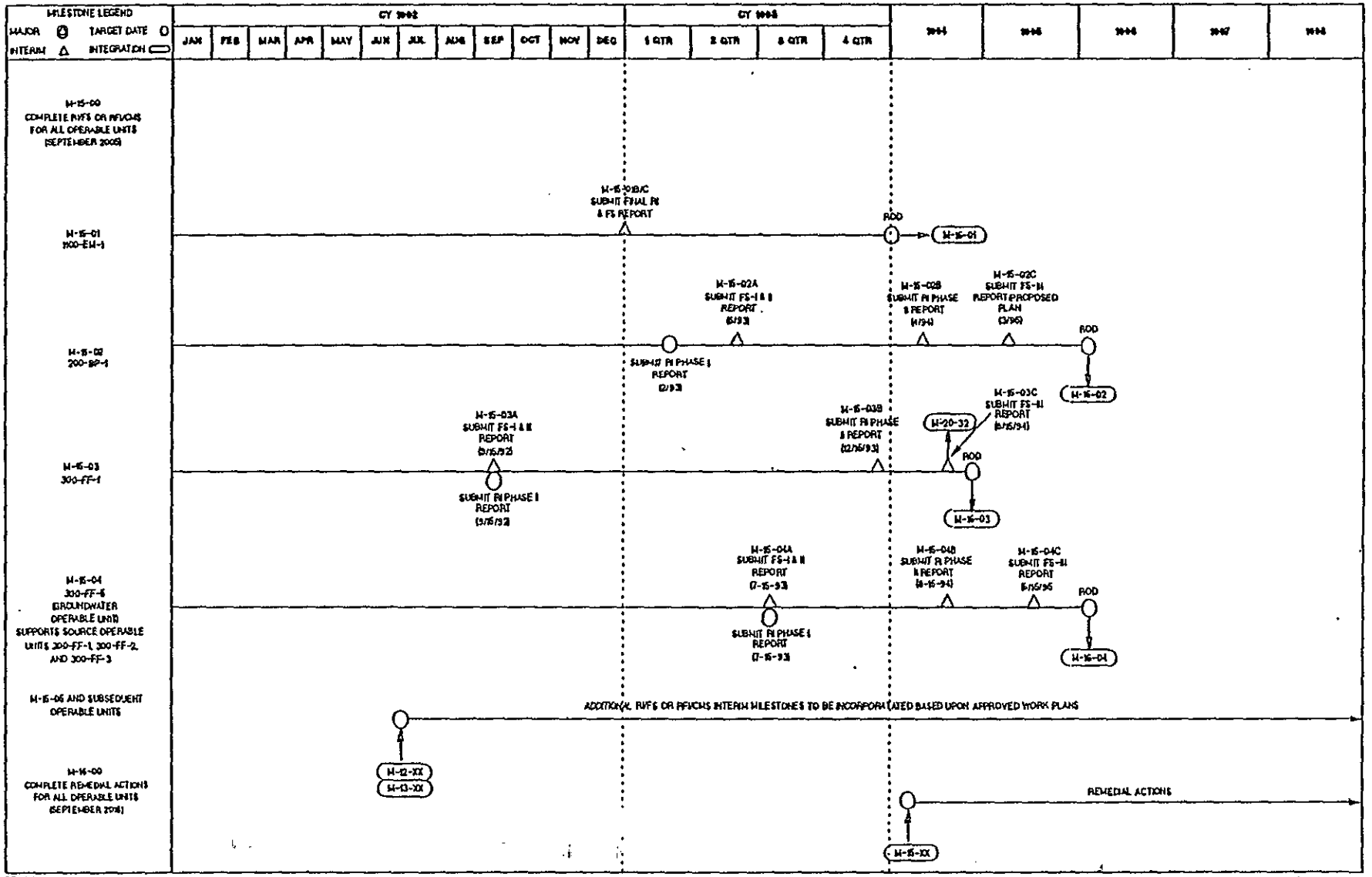

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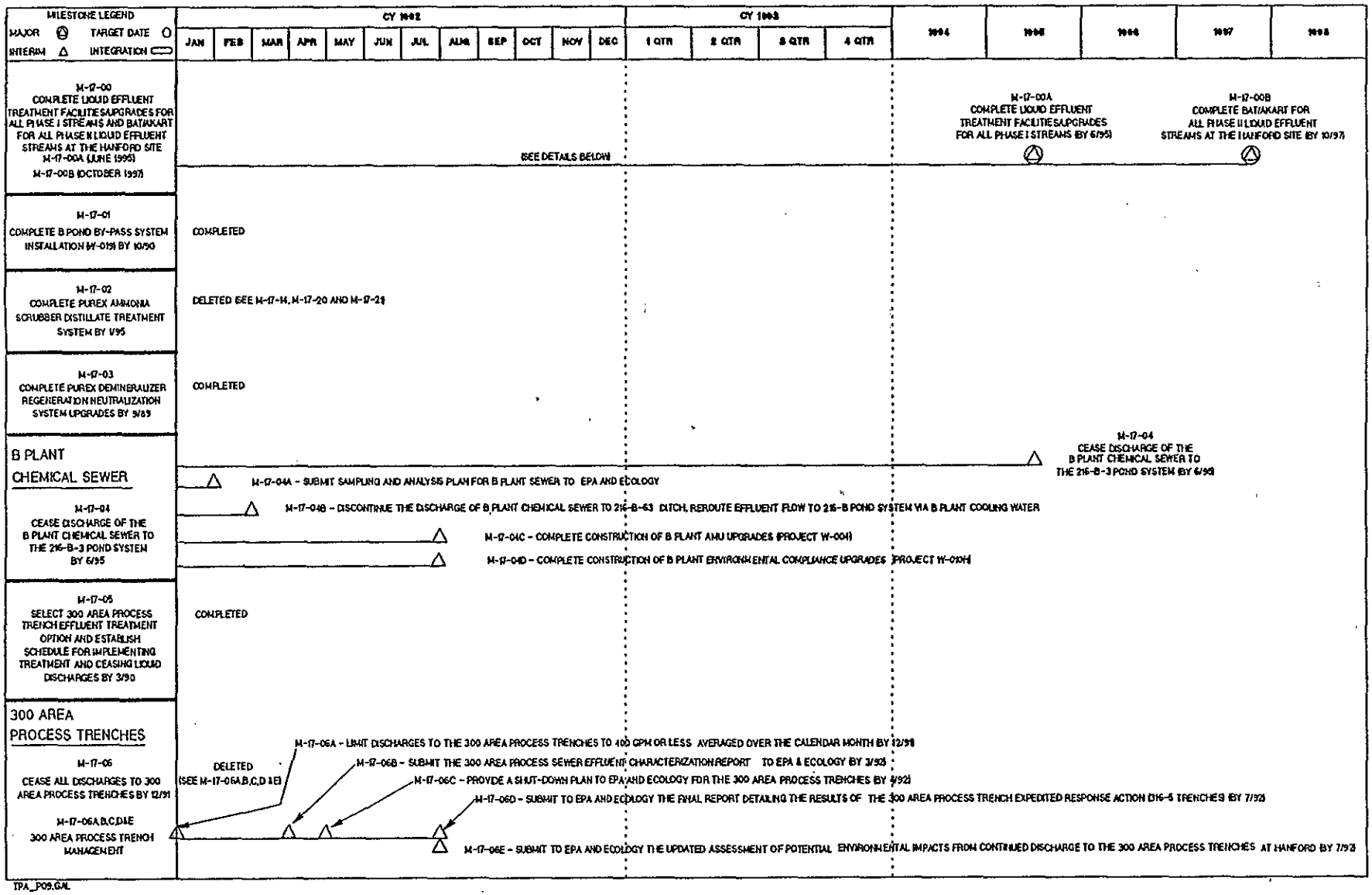
FIGURE D-1 WORK SCHEDULE

FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



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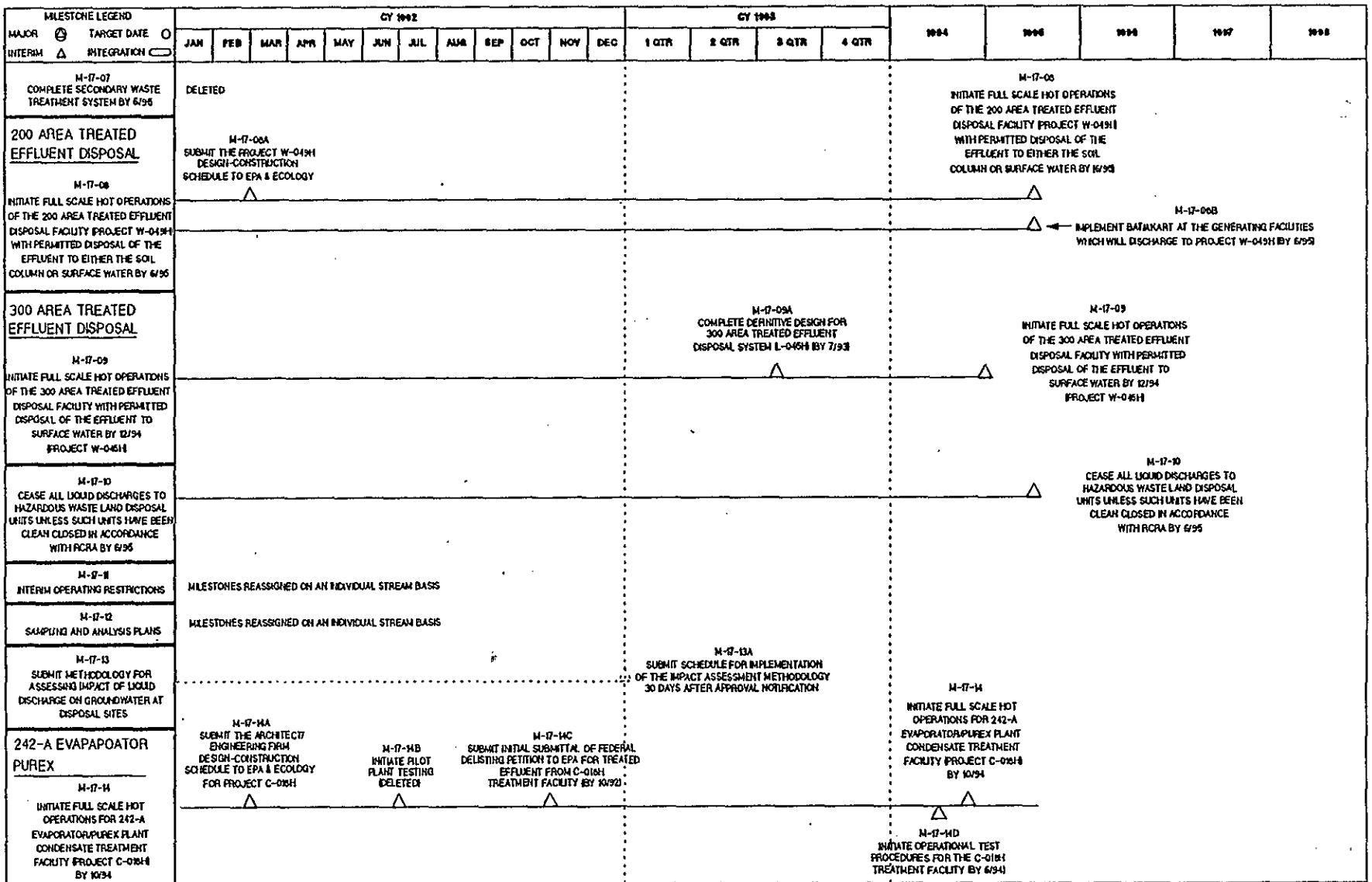
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



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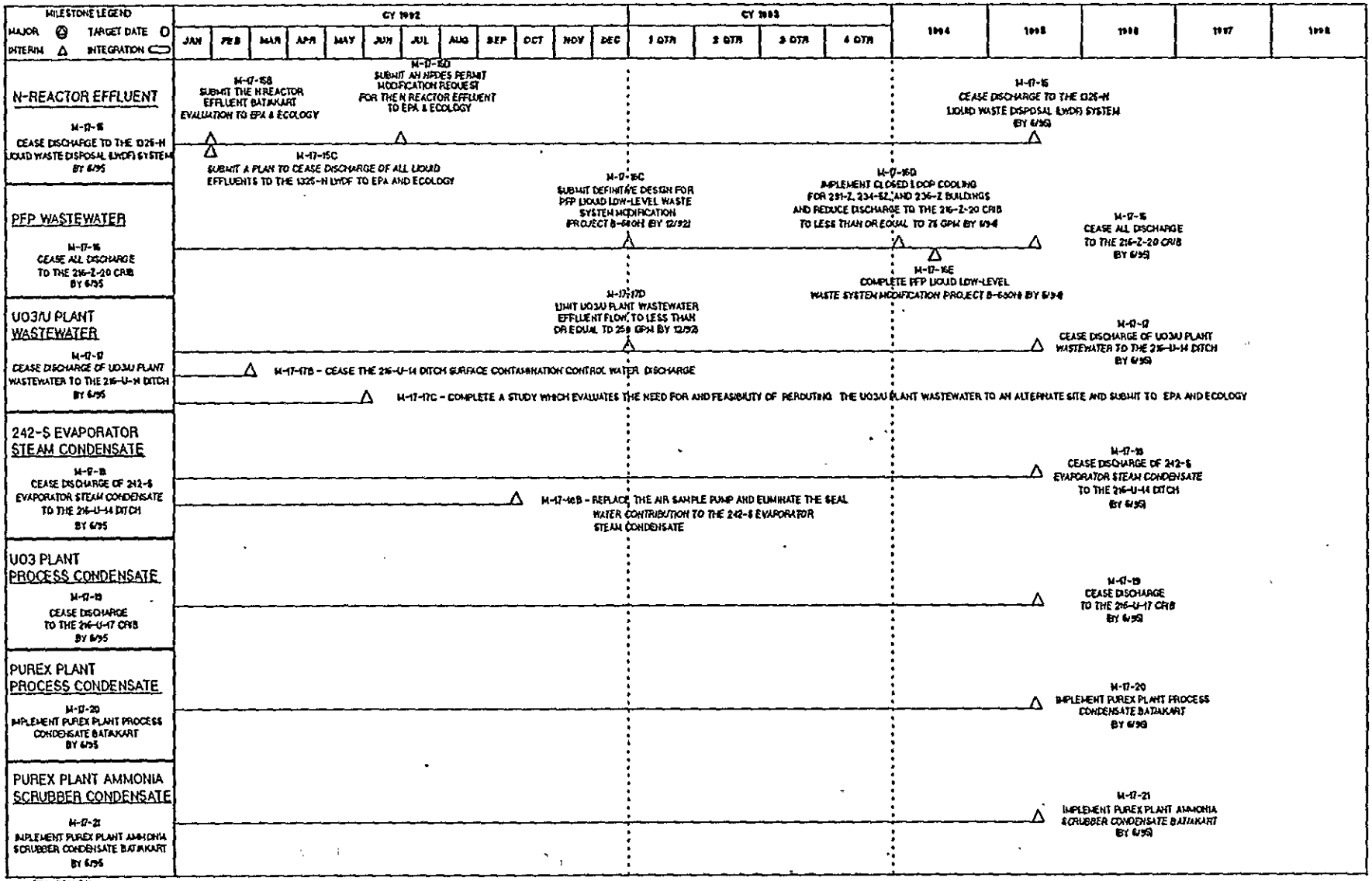
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



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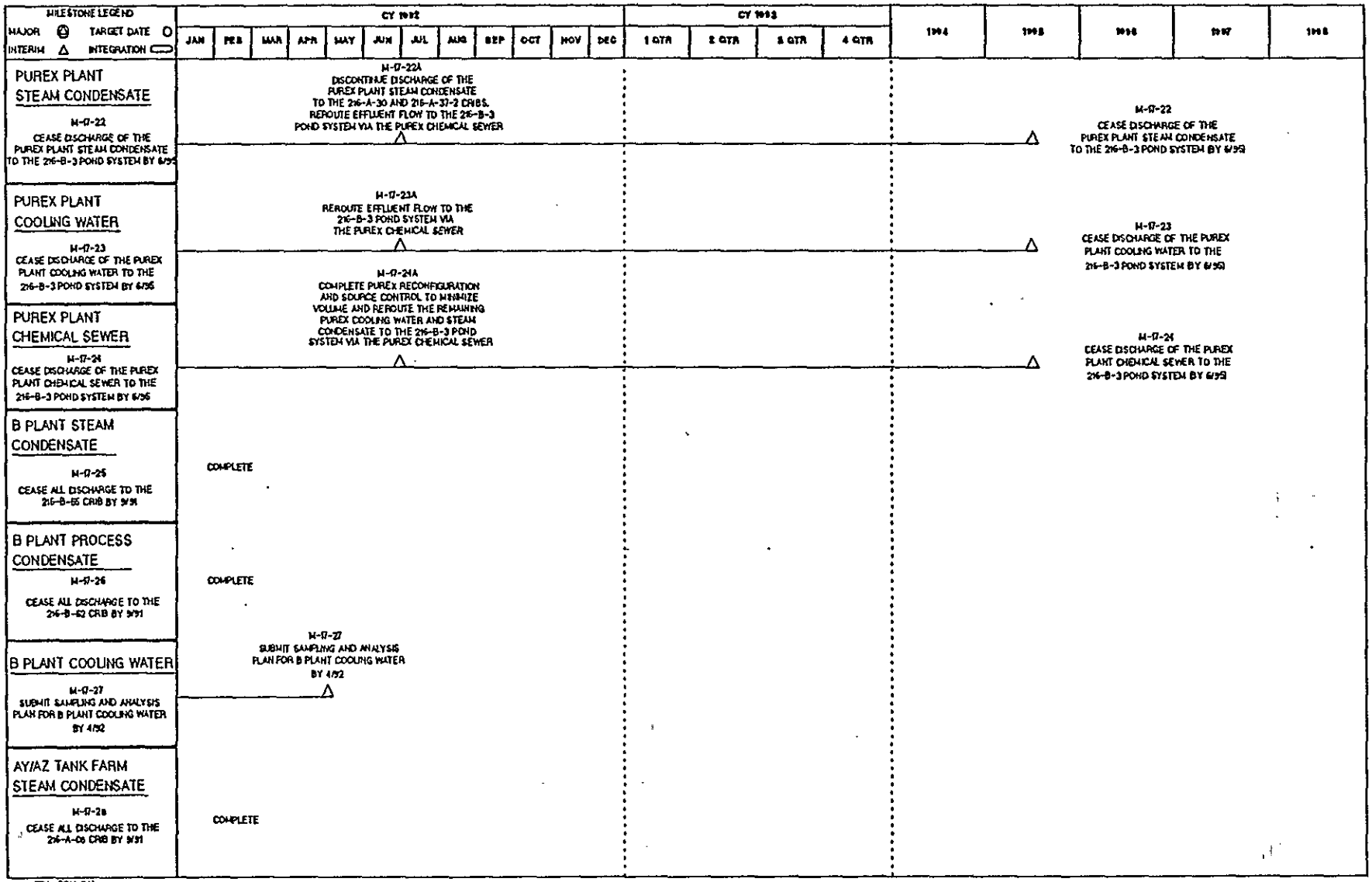
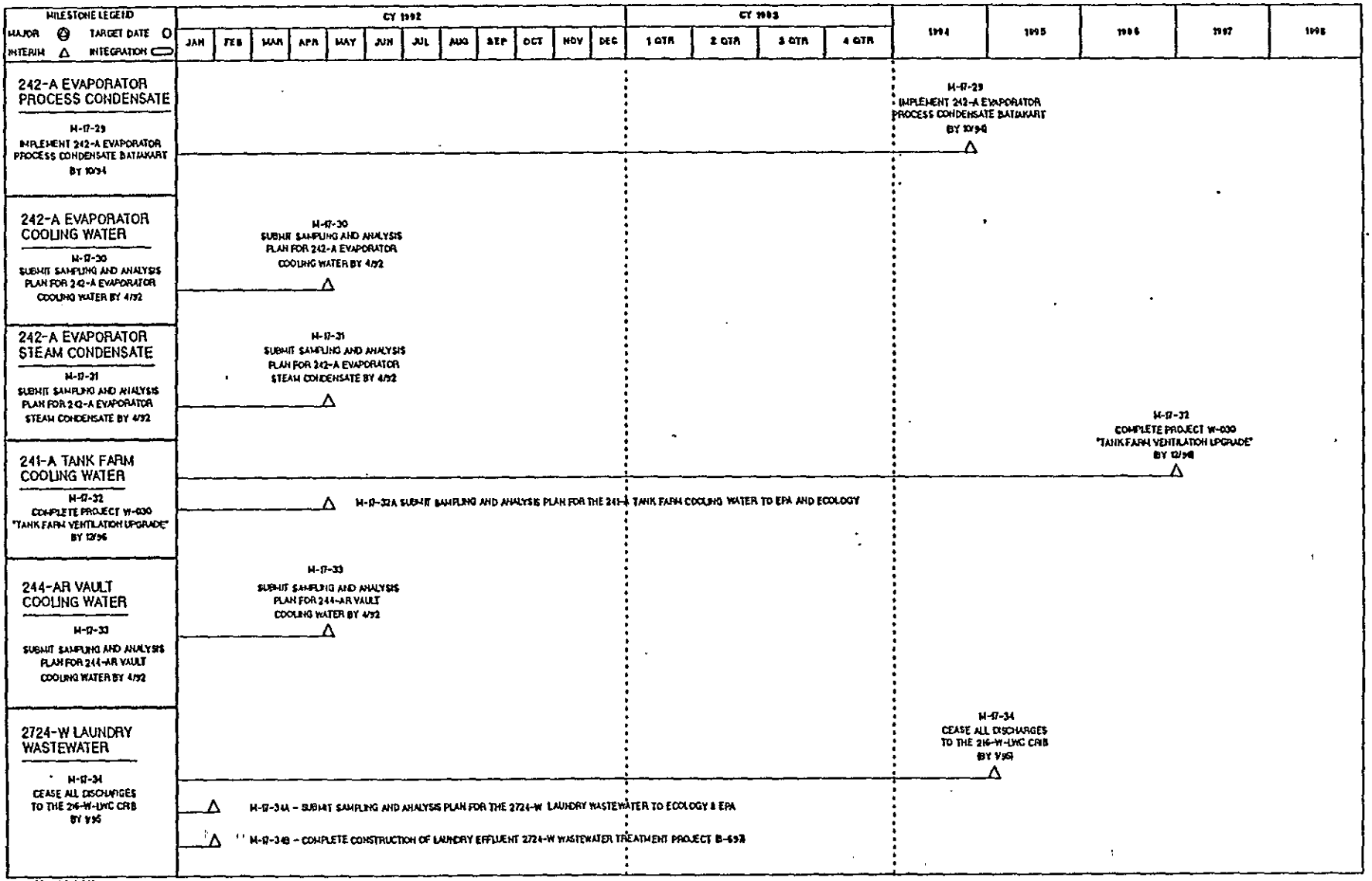
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



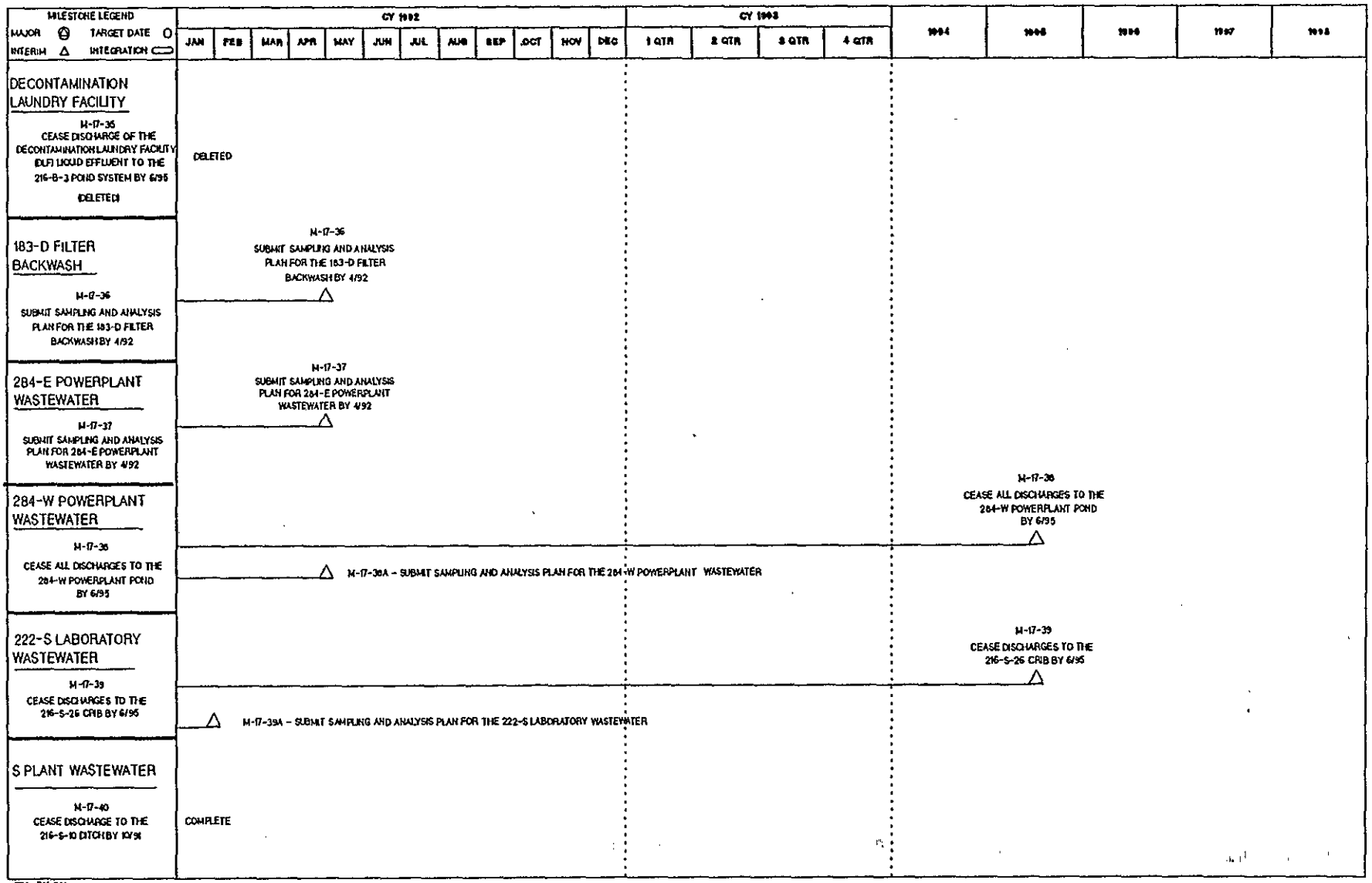
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



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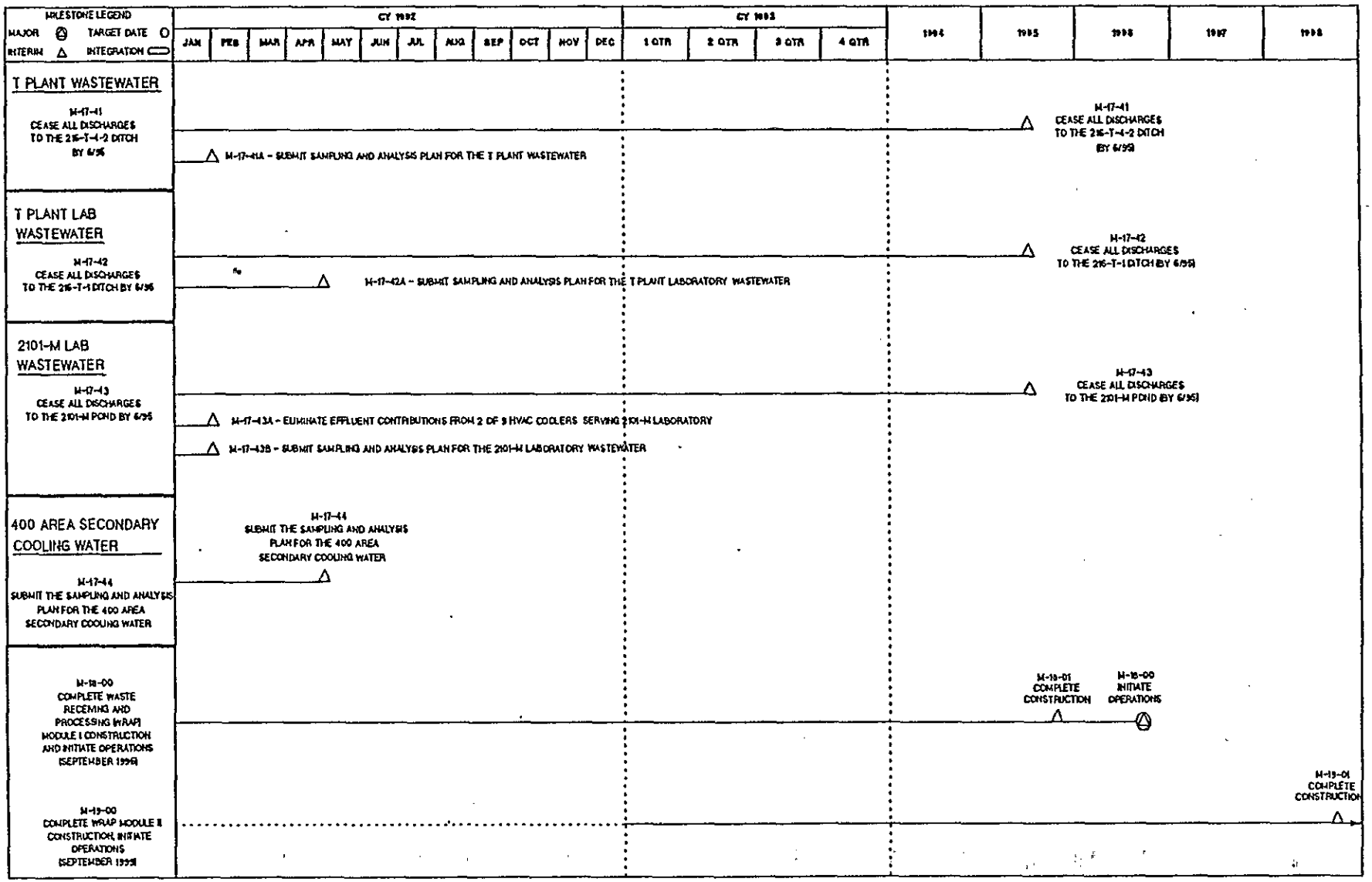
ACTION PLAN WORK SCHEDULE



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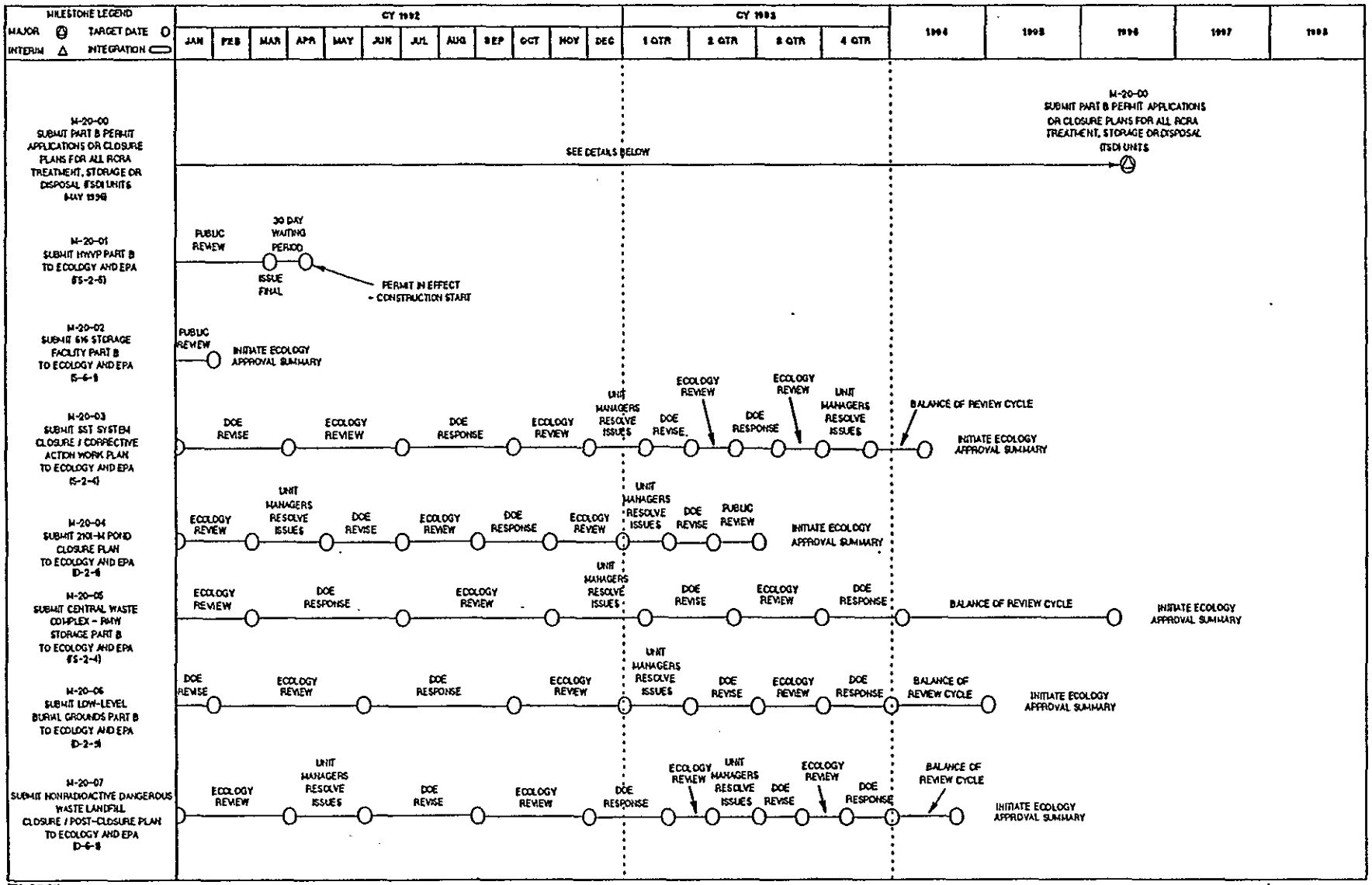

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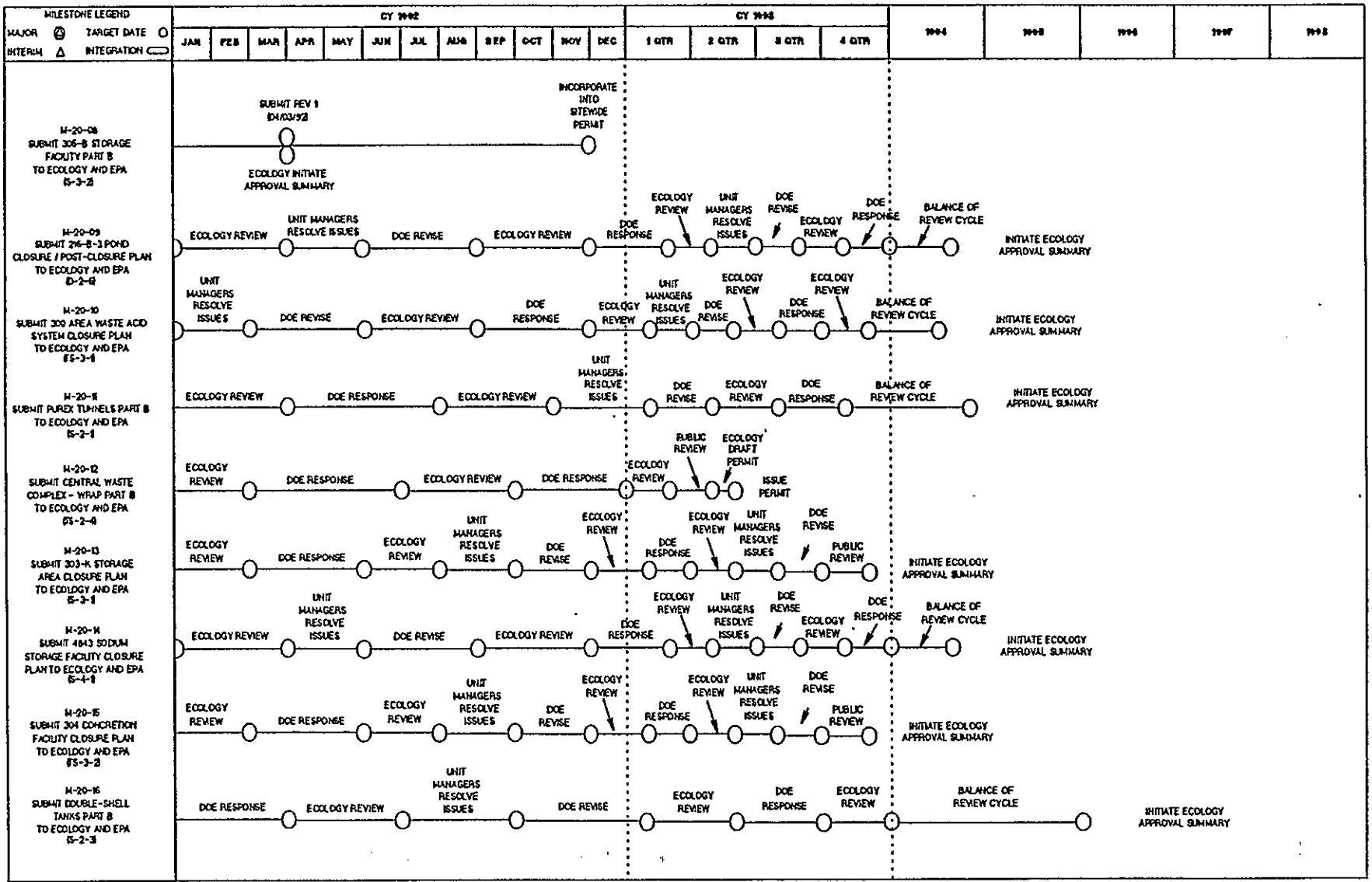
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



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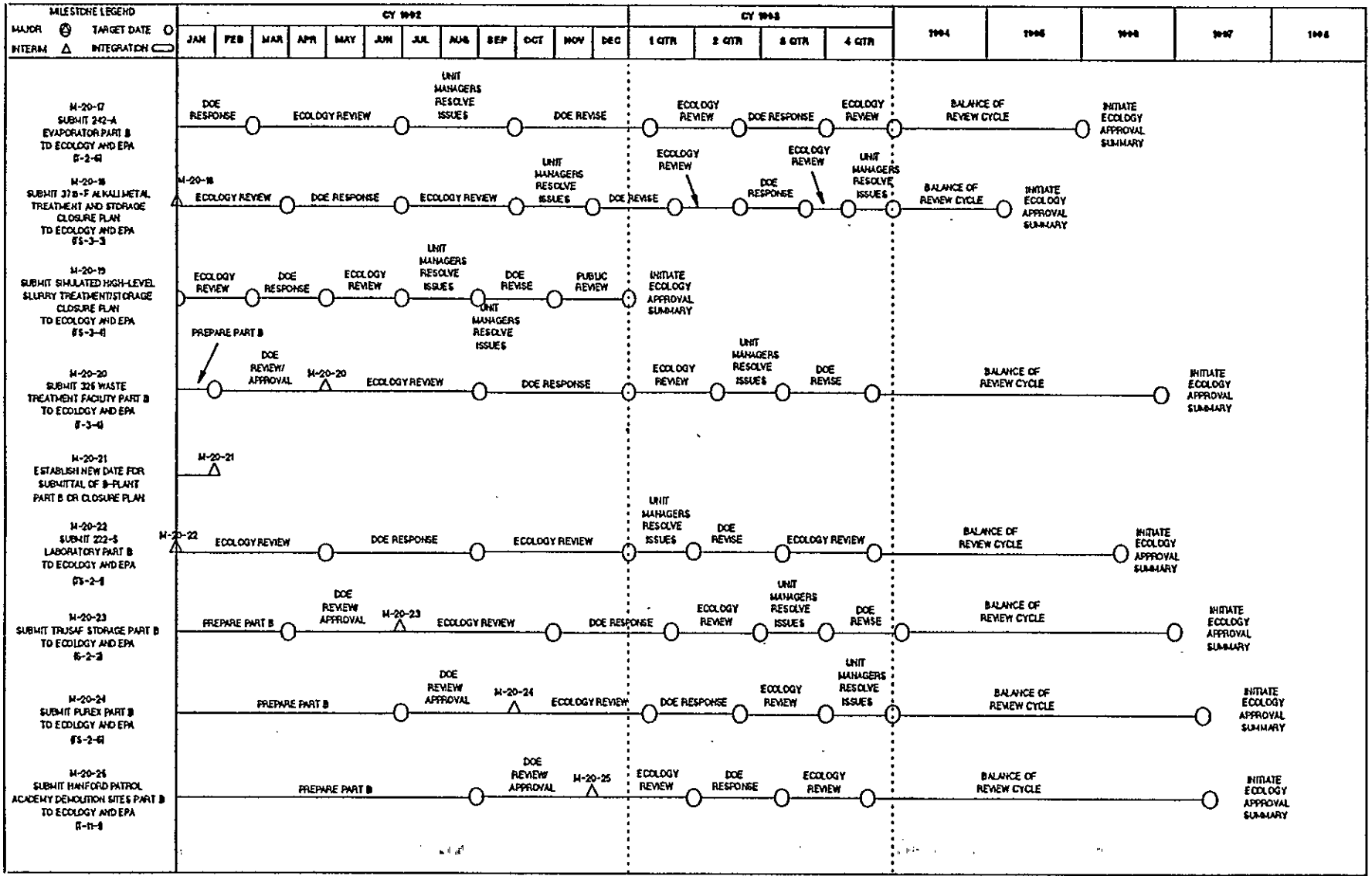
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



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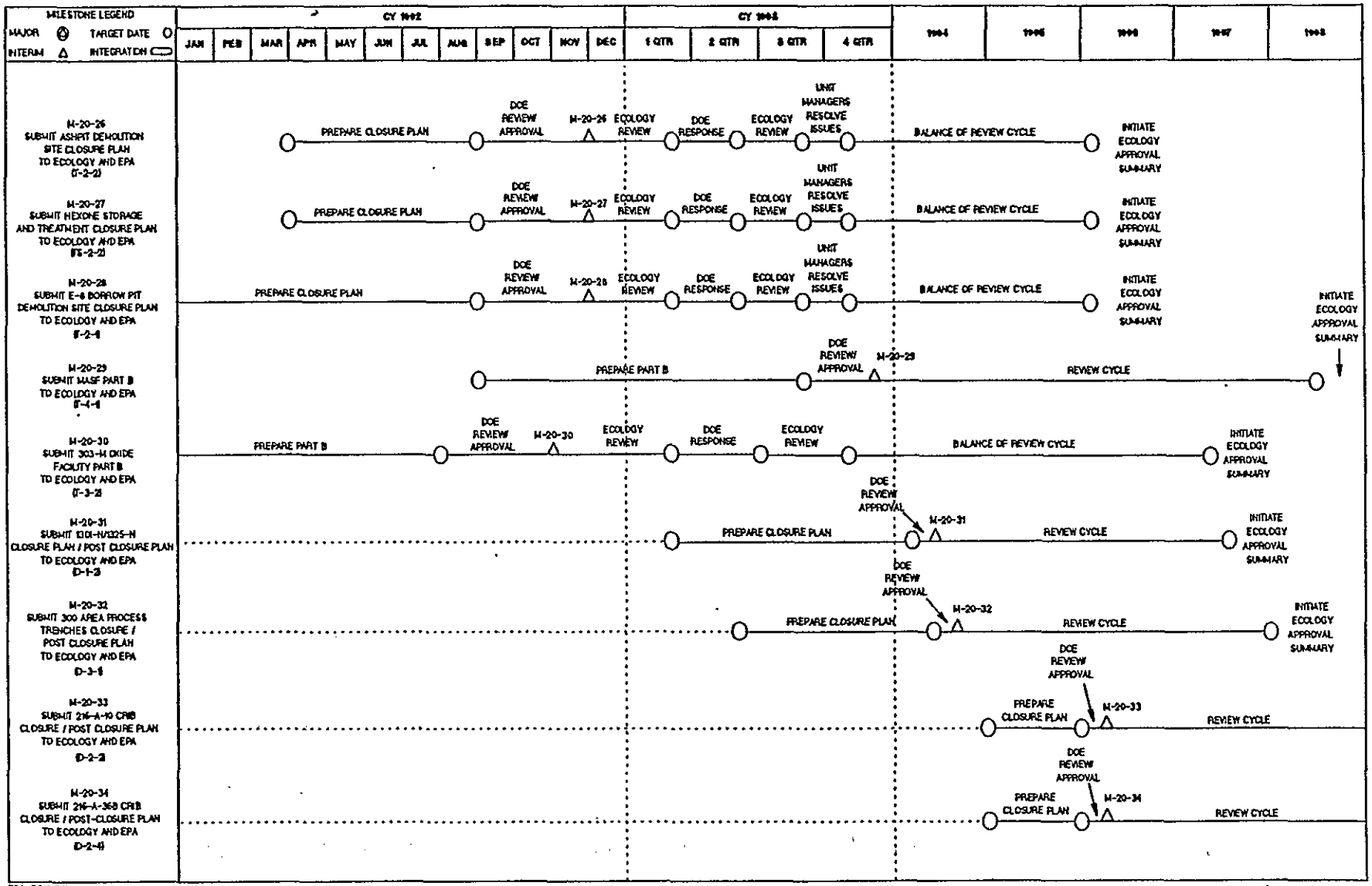

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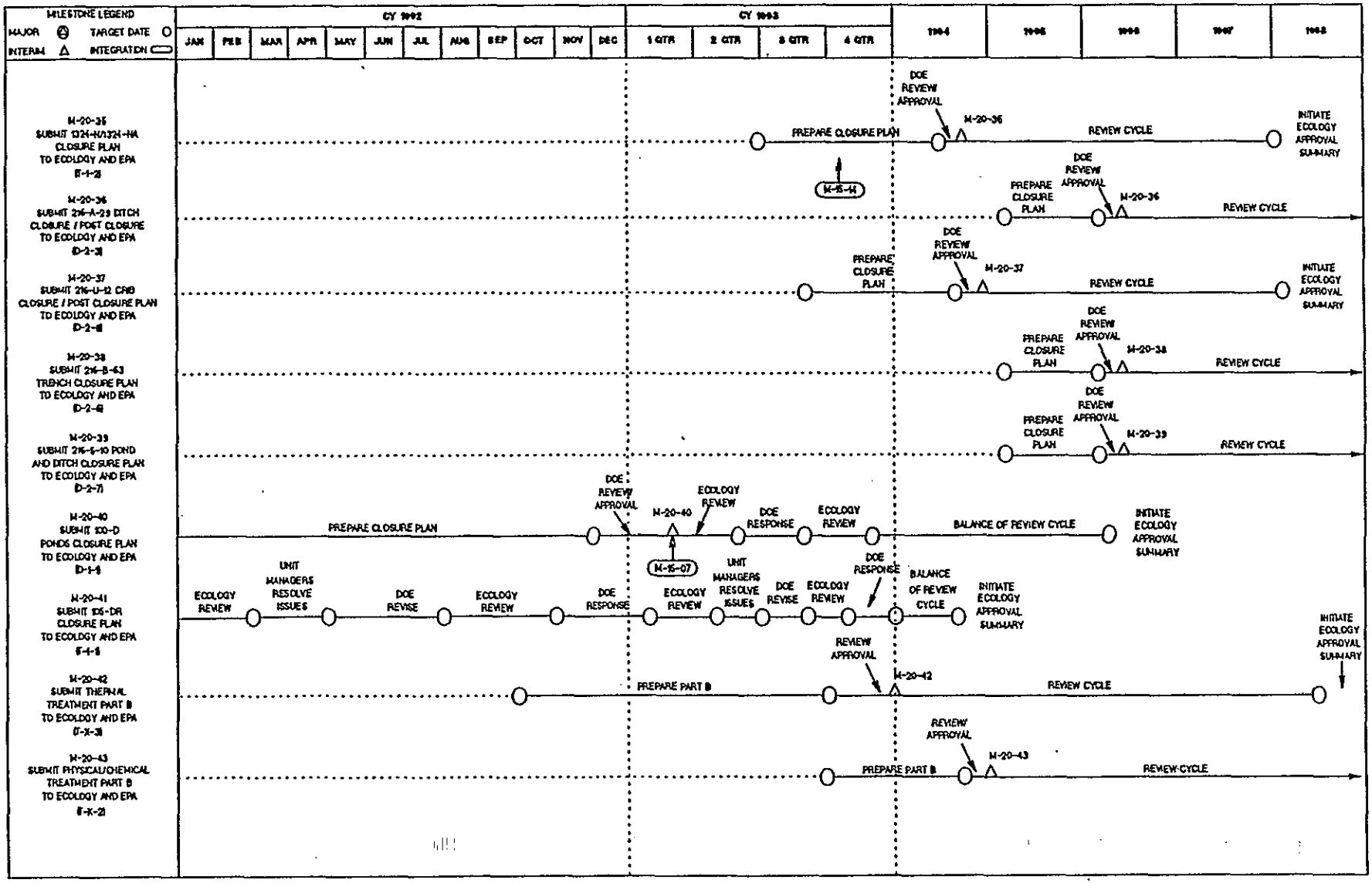

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FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

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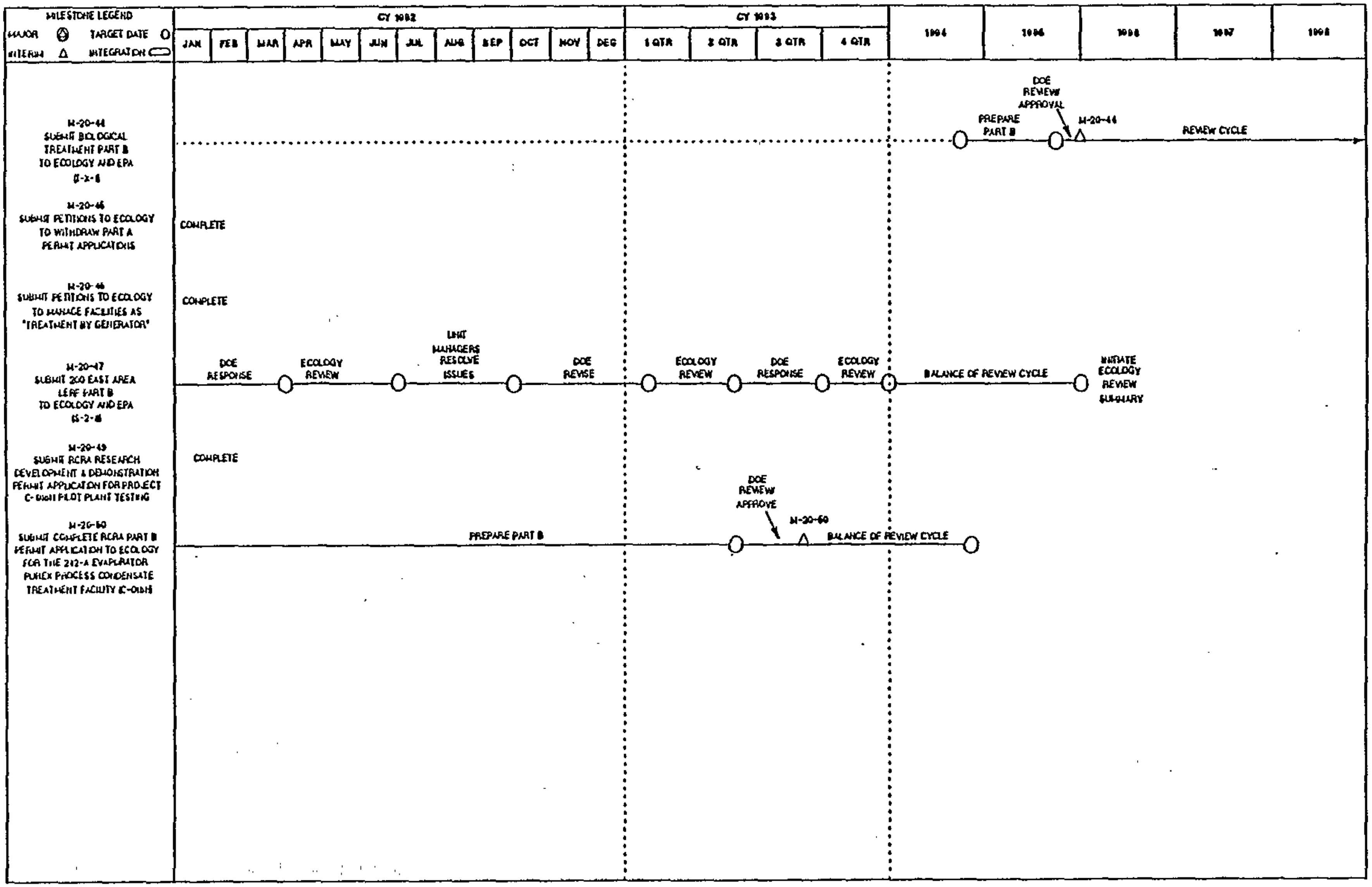

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FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

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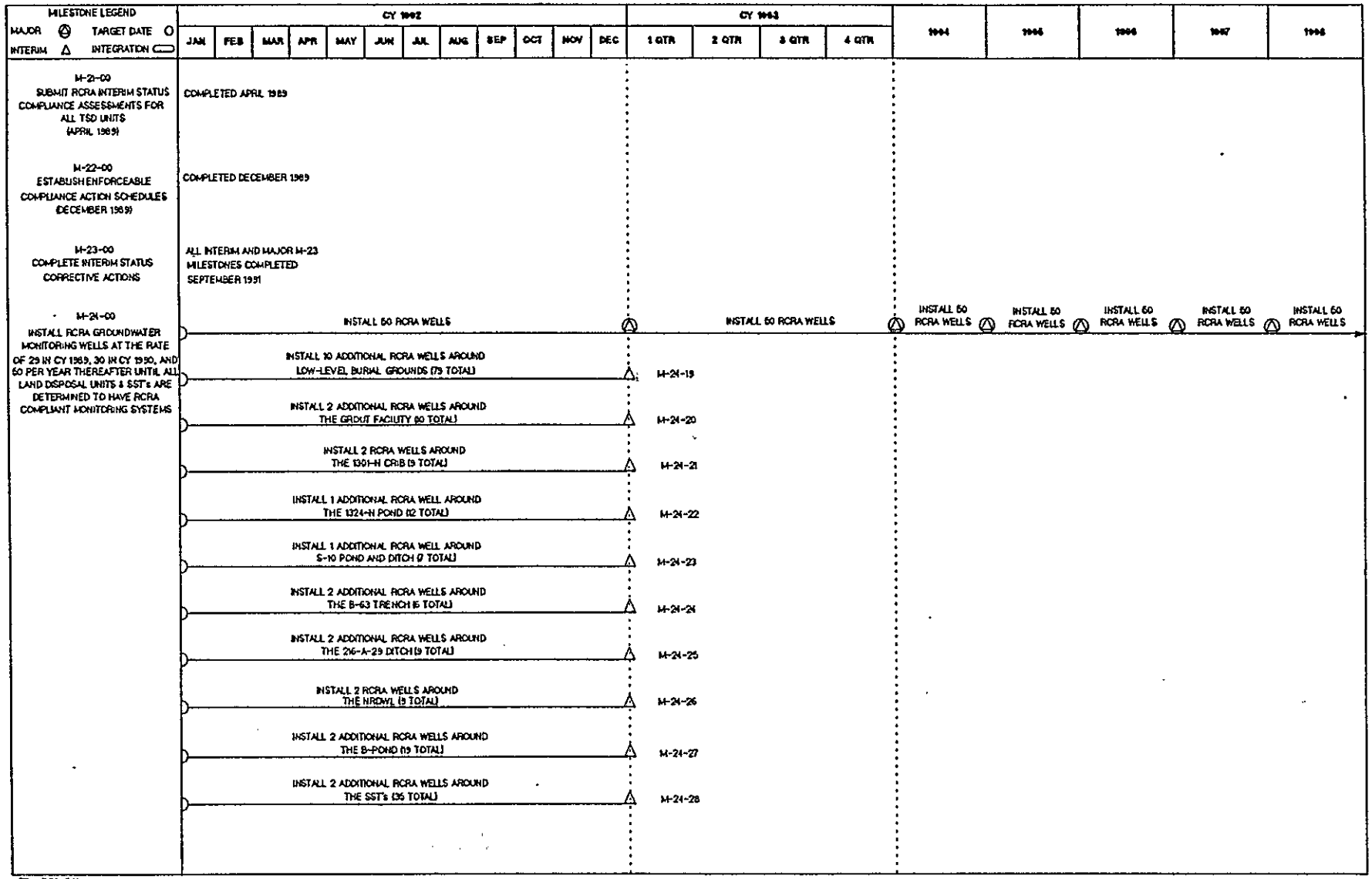

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FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

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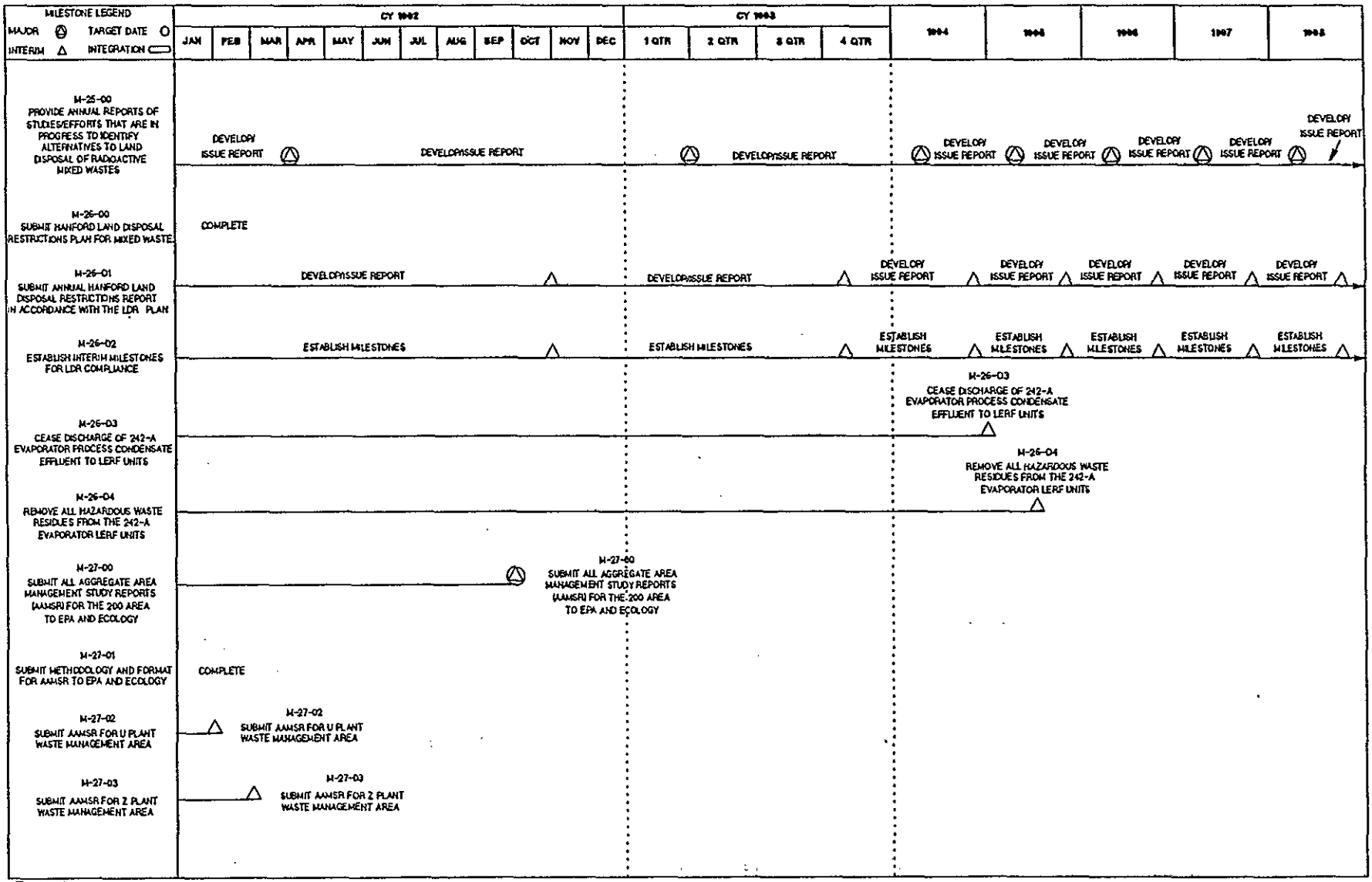

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FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

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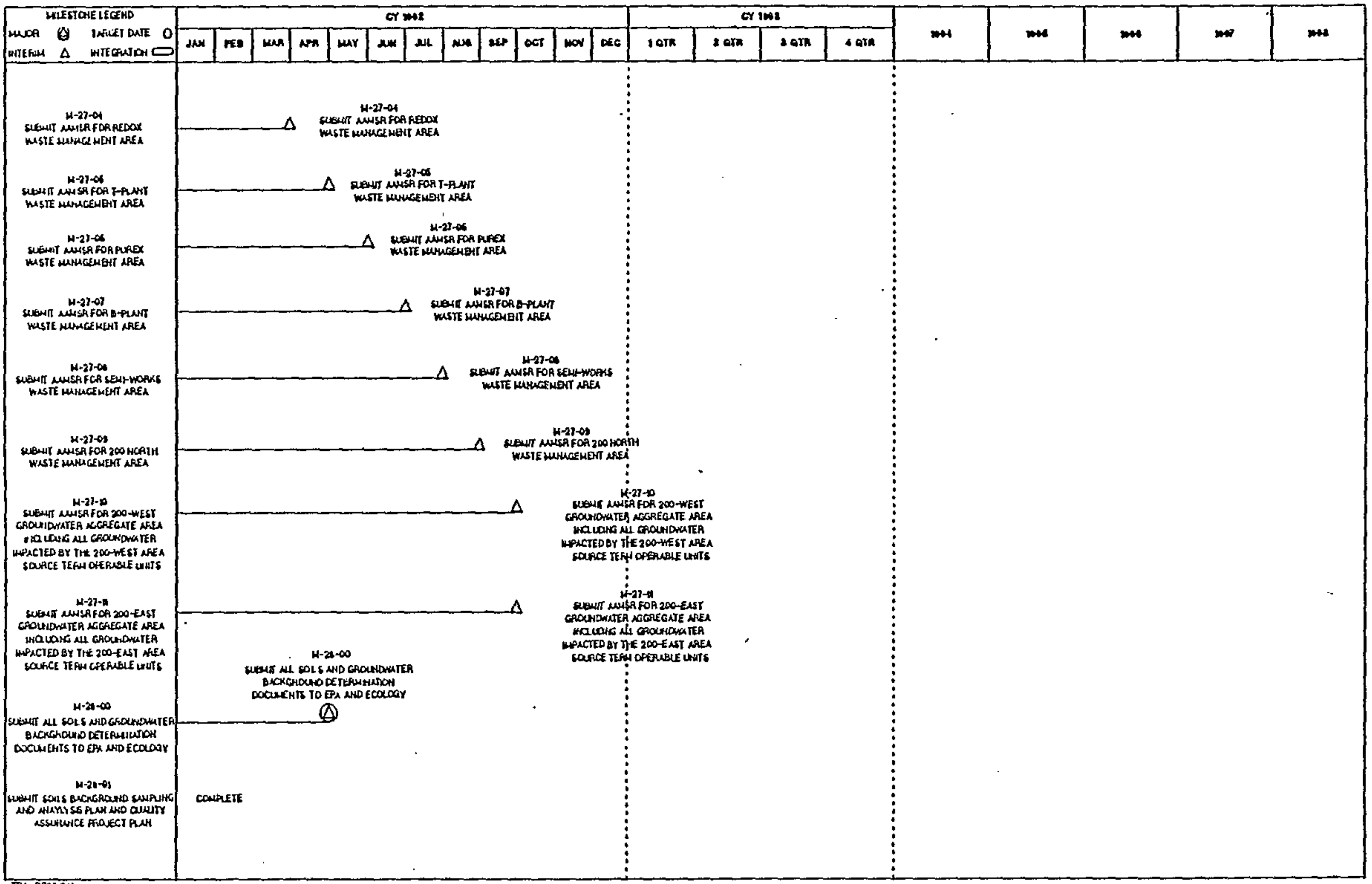

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FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

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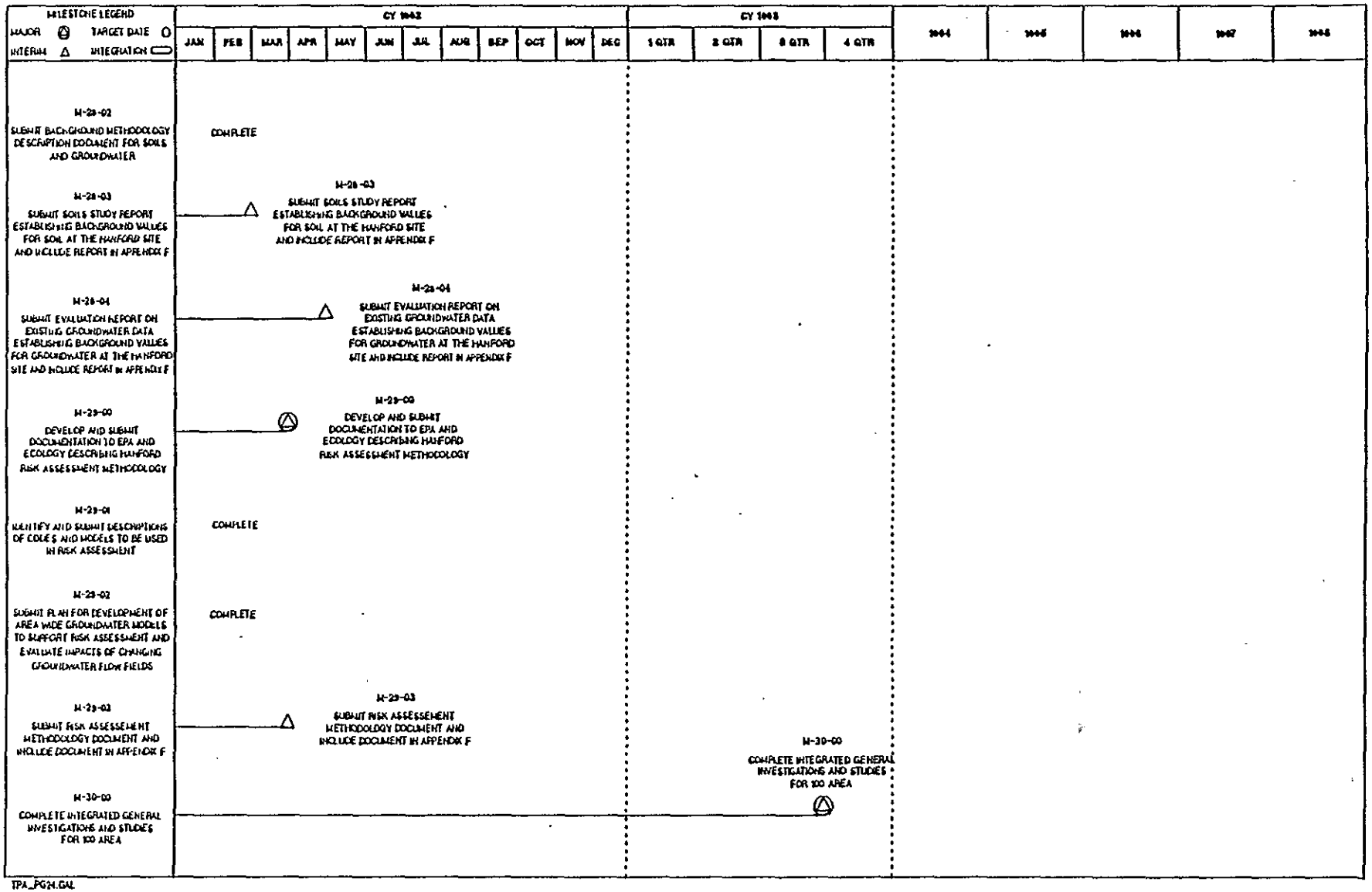

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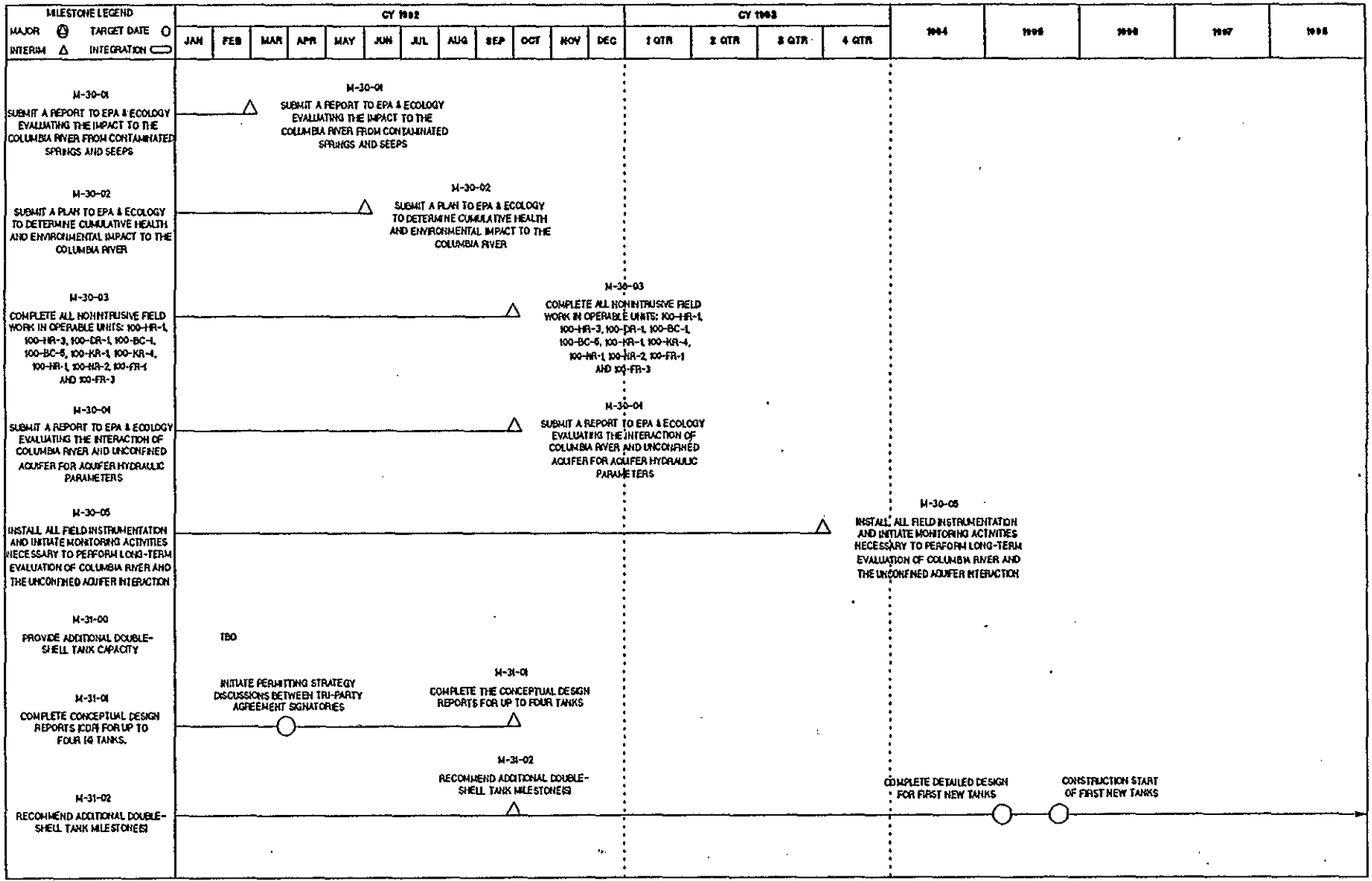
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



APPENDIX E

KEY INDIVIDUALS

	U.S. Environmental Protection Agency Region 10	Washington State Department of Ecology	U.S. Department of Energy Richland Operations
Hanford Project Manager	Paul Day	David Jansen	Steve Wisness
	Environmental Protection Agency Region 10 712 Swift Blvd. Suite 5 Richland, WA 99352 (509) 376-6623	Washington Department of Ecology Nuclear and Mixed Waste Management Program P.O. Box 47600 Olympia, WA 98504 (206) 438-7021	U.S. Department of Energy Field Office Richland P.O. Box 550 Richland, WA 99352 (509) 376-6798
Community Relations Contact	Bub Loiselle	Mary Getchell	Ken Morgan
	Environmental Protection Agency Region 10 HW-117 1200 Sixth Avenue Seattle, WA 98101 (206) 553-6901	Washington Department of Ecology Nuclear and Mixed Waste Management Program P.O. Box 47600 Olympia, WA 98504 (206) 459-6862	U.S. Department of Energy Field Office Richland P.O. Box 550 Richland, WA 99352 (509) 376-7162

APPENDIX F

Supporting Technical Plans and Procedures

Document	Status
Strategy for Handling and Disposing of Purgewater at the Hanford Site, Washington	WHC-MR-0039 Approved by DOE, EPA Ecology on August 21, 1990
Data Quality Strategy for Hanford Site Characterization	"Proposed Data Quality Strategy for Hanford Site Characterization, " WHC-SD-EN-AP-023, issued Jan. 19, 1991
Environmental Investigation and Site Characterization Manual (contains specific procedures governing Site investigation activities)	CM-7-7 Issued, September 1988
Data Reporting Requirements for the Hanford Site	To be developed
Guidance on Preparation of Laboratory Quality Assurance Plans	Draft issued
Data Validation Guidelines for Contract Laboratory Program Organic Analyses	WHC-CM-5-3 issued August 31, 1990
Data Validation Guidelines for Contract Laboratory Program Inorganic Analyses	WHC-CM-5-3 issued August 31, 1990